

TechLife

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TECH STARTUPS WANT TO CHANGE THE WAY YOU DRIVE

ROBOTS LOOK SET TO BATTLE

IN BOTH ARENAS AND WAR ZONES



ASHLEY MADISON

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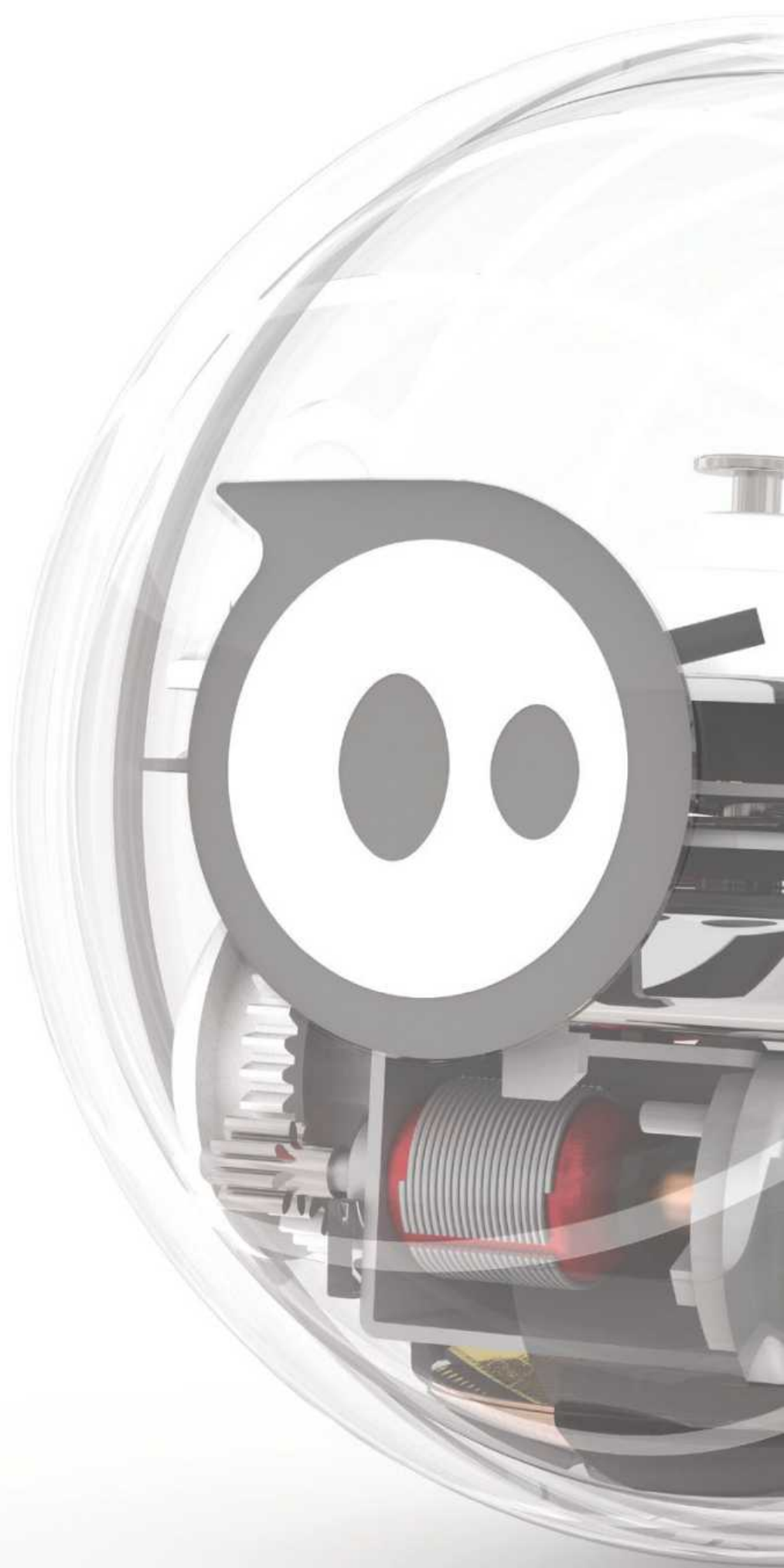


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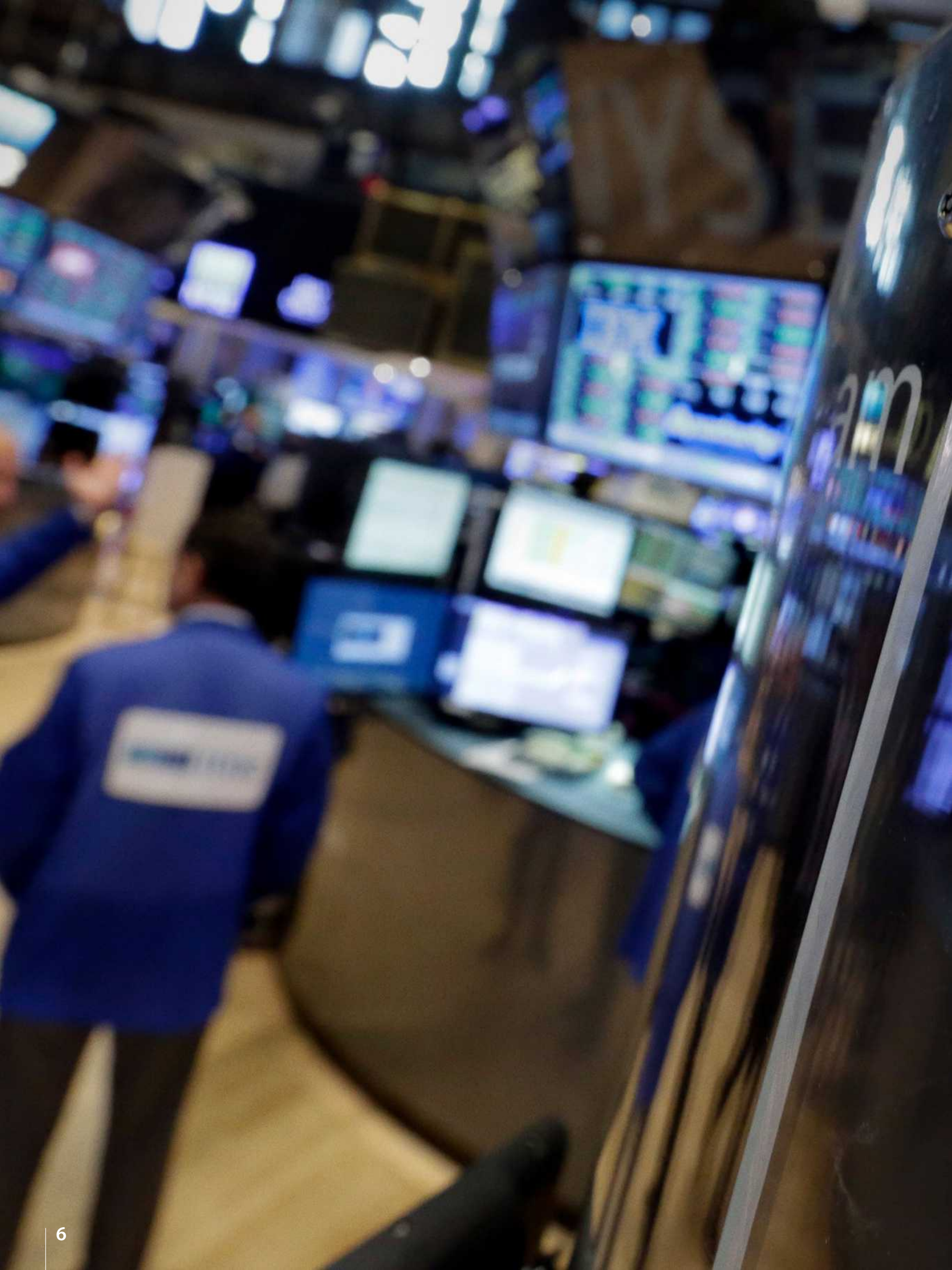
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TWITTER'S STOCK FALLS BELOW IPO PRICE ON USER GROWTH WORRIES

Twitter's battered shares dipped below their IPO price on Thursday as investors worry about the company's ability to grow its user base.

Shares of the San Francisco-based short messaging service fell 5.8 percent to close at \$26, after trading as low as \$25.92 during the day amid a broader market decline.

Twitter went public in November 2013 at an initial public offering price of \$26 per share.

The stock is down 29 percent since Twitter's July 28 earnings report, when it warned that boosting its user growth rate will take a long time.

The challenge for Twitter is broadening the appeal of its service to the mass market amid fierce competition from Facebook as well as messaging apps like WhatsApp or Snapchat. While many people are familiar with Twitter, the company has not been able to convince people that they need it.

In addition, Twitter is also without a permanent CEO, although co-founder Jack Dorsey is at the helm on an interim basis.





MICROSOFT
SAYS
WINDOWS 10
NOW ON 75
MILLION
DEVICES

SAN FRANCISCO (AP) - Microsoft said Wednesday that its new Windows 10 software is running on more than 75 million computers, tablets and other devices - in just under a month since the operating system was released.

Analysts say that's a good start, although the company is hoping to get the software installed on a billion devices over the next three years. Microsoft Corp., which is best known for making software for personal computers, is hoping Windows 10 will help it rebuild loyalty among users who are increasingly relying on tablets, smartphones and other devices.

PC sales have been shrinking in recent years and that trend is likely to continue, according to a new forecast from International Data Corp. Analysts at IDC predicted Monday that 2016 will mark the fifth consecutive year of declining PC sales worldwide.

Computer-makers are hoping to get a boost from consumer interest in Windows 10, which manufacturers are making available on new

machines being sold this fall. But IDC noted in its report that Microsoft is also offering the new software as a free download for people who want to install it on their existing PCs.

The free upgrades probably account for the bulk of the 75 million devices now using Windows 10, said analyst Patrick Moorhead of Moor Insights & Strategy, although he said more new models will likely be sold this fall.

Some of the machines getting Windows 10 are quite old. Microsoft executive Yusuf Mehdi, who released the new figures Monday, said in a Twitter post that, "even some devices manufactured in 2007 have upgraded to Windows 10."

Along with new features, the Redmond, Washington, software giant designed Windows 10 to fix some unpopular elements of Windows 8, the operating system's last version. It's intended to work on PCs, tablets, smartphones and other devices, although the company released it for PCs and tablets first.



Apple Magazine

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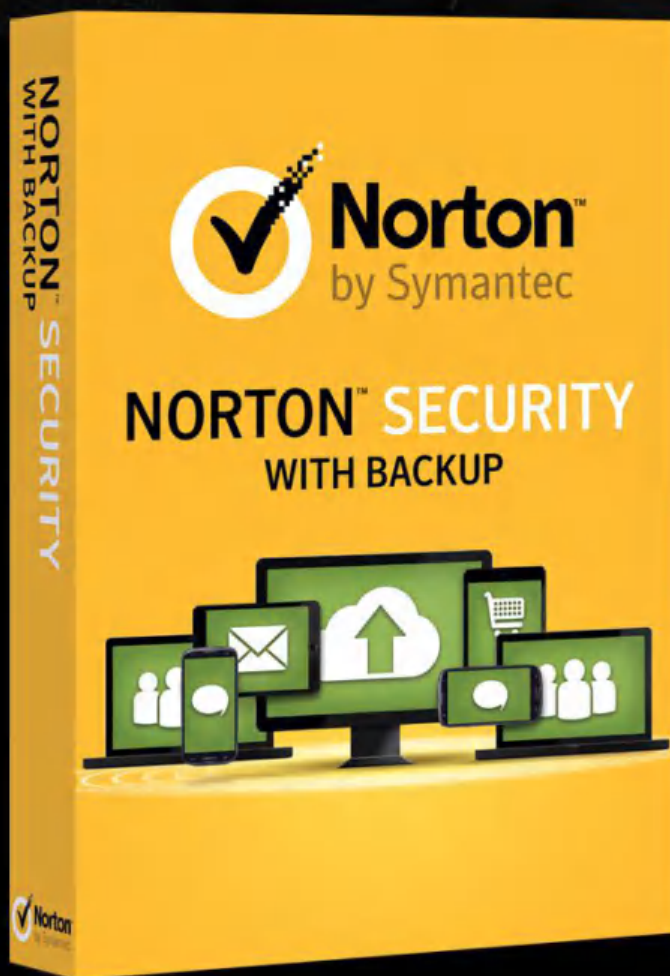
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OUT OF JUVIE, INTO NATURE: CALIFORNIA YOUTH RUN WILD WEBCAMS

Harry Grammer, the CEO of a Los Angeles-based nonprofit that works with young adults, wanted to give kids recently out of the juvenile justice system real jobs and marketable skills.

Three years ago, a chance meeting gave Grammer what he wanted.

Explore.org, a philanthropic media branch of the Annenberg Foundation, has a network of more than 50 high-definition web cameras streaming live images of wildlife around the clock. The organization offered to fund a program that would hire his alums, regardless of their previous offenses, as camera operators earning hourly wage between \$10 and \$15 with benefits.

Since then, New Earth has employed more than 30 camera operators, given them technical training and taught them film editing, production and multimedia skills. More than a million people watch the feeds online every month to get a glimpse of the most remote regions of the world, but few know that behind



those cameras are young Los Angeles offenders, some of whom have never even been down the road to Disneyland.

But now they virtually step into the beehives in Bavaria, Germany, stand in the rough waters of Alaska where brown bears fish for salmon or watch pandas clumsily wrestling each other in China.

Brandon Monroe was stabbed 15 times when he was 15 years old. He said the attack and robbery in a dark Los Angeles-area alley turned him from a good person to "pure cold." Yet after years of crime and serious time in juvenile hall, at age 19 he's come in from the cold to spread warmth - in the form of penguins and brown bears, walruses and chipmunks.

From his desk in Culver City, Calif., and with simple shifts of a joystick, Monroe guides people to watch exotic animals around the world, remotely controlling cameras that capture the wonders of wildlife.

"Nature has no judgment," Grammer said. "I always tell my kids, when you go into nature, you don't see gang graffiti on the walls, you don't hear police sirens, you don't see people being violent with each other, you don't hear loud noises of hate, aggression, and racism."

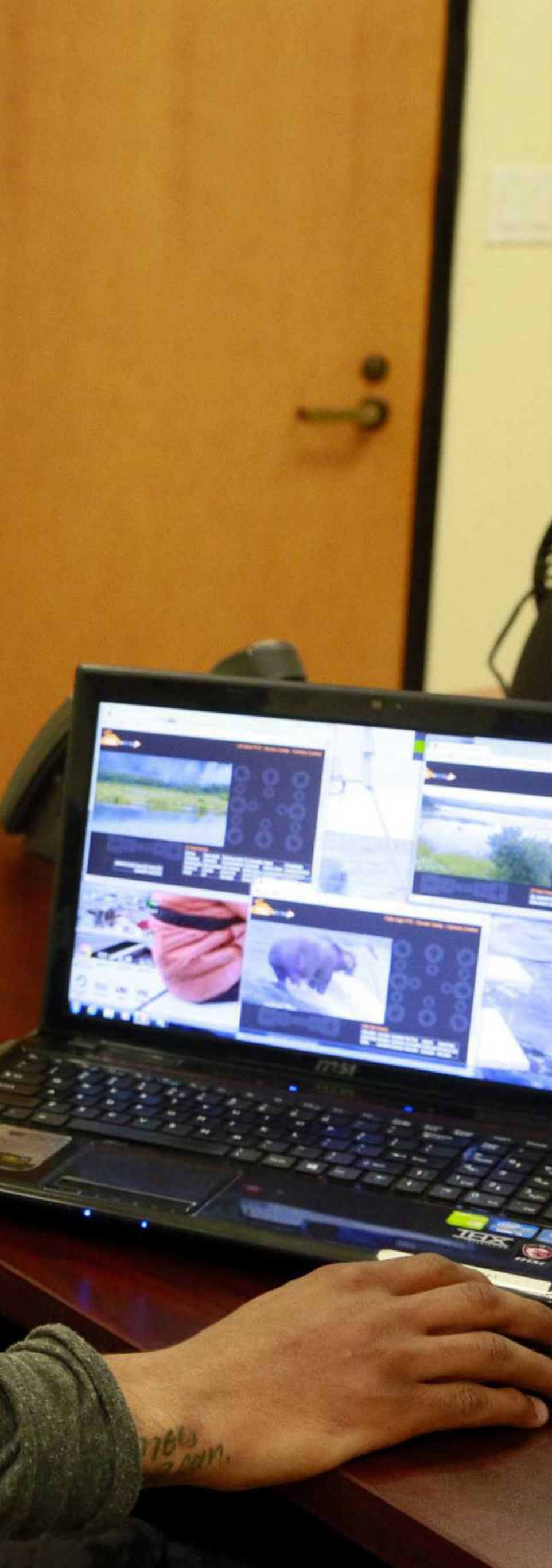
Grammer's organization works with young men and women from 15 detention centers in Southern California during and after incarceration. Grammer, who once served time on residential burglary charges, founded the organization in 2004 to keep juvenile offenders off the streets and out of trouble.

For teens with a history of incarceration, finding employment - especially jobs that









lead to successful careers - proves to be an unsurmountable challenge. Many fall into unemployment, poverty, and crime.

There's also a program called "Dog Bless You" with shots from domestic animal shelters, whose great Danes Monroe says he favors over all the exotic competition.

Many New Earth camera operators saw animals treated with cruelty in their neighborhoods, where pit-bull brawls and razor-bladed cockfights were considered entertainment.

Monroe said he never gave his own future, much less the welfare of animals, any thought before joining New Earth. He always had a roof over his head as a child, but said he never got the kind of support he needed. His mother was in-and-out-of-prison, leaving his father to raise five children after his own incarceration. Two of his younger siblings and all of his uncles are still in jail.

Committing petty crimes easily turned into a habit and Monroe became a frequent visitor to juvenile jail.

Eager for another chance but unsure of where to begin during his seventh and final jail visit, Monroe decided that if he didn't get better, he would "go all out."

The animals led him on a different path. He said he has grown more affectionate, more nurturing.

"It makes me see things I've never seen before," Monroe said.

"The animals give me a perspective on how to take care of people," he said. "I kind of compare animals to babies. Just watching the little baby is amazing."

FACEBOOK
TESTING ITS
OWN
VIRTUAL
ASSISTANT IN
MESSAGING
APP

NEW YORK (AP) - Facebook is the latest technology company to offer users a virtual assistant service.

Facebook is testing the artificial intelligence-powered service, called simply "M," inside its messaging app, Messenger, with some users.

David Marcus, the head of messaging products at the Menlo Park, California company, says in a Facebook post that M can do things like buy items for you, get gifts delivered and book restaurant reservations or appointments.

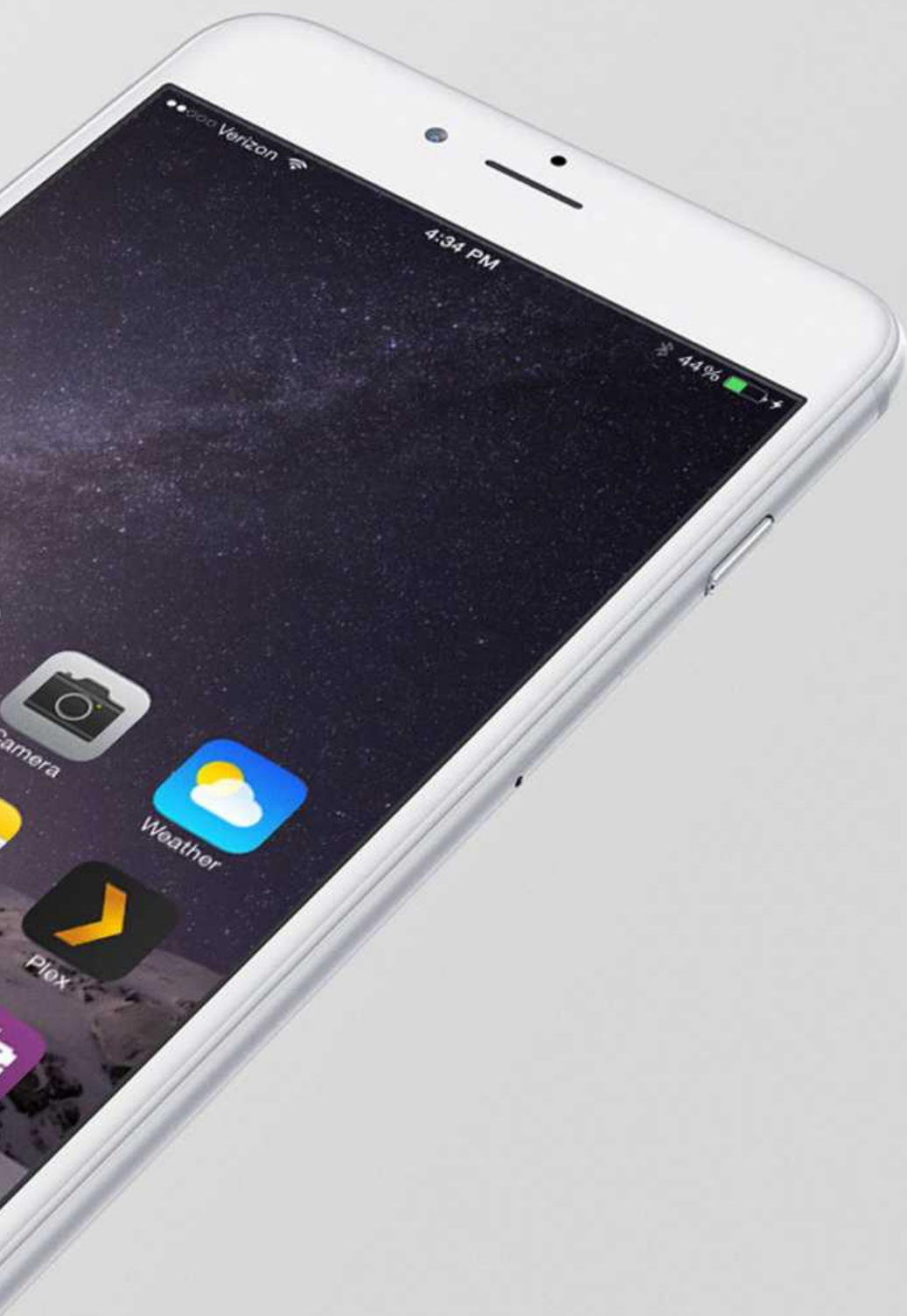
Apple's Siri is the most well-known virtual assistant. Microsoft and Amazon also have options.

Marcus says M aims to do more than other digital assistants on the market by completing tasks on the user's behalf.

With more than 700 million users, Messenger is one of the world's most popular messaging apps.



GARTNER SAYS SMARTPHONE SALES GROWTH SLOWS



Worldwide sales of smartphones in the second quarter grew at the slowest pace since 2013 as sales in China declined for the first time, according to research firm Gartner Inc.

Gartner said Thursday that smartphone sales grew 13.5 percent to 330 million units in the second quarter compared with a year earlier. While demand continues to increase in emerging markets, Gartner says overall smartphone sales were mixed. Smartphone sales in China fell 4 percent year-over-year - the first such decline for the world's most populous country and biggest market for smartphones.

China accounted for 30 percent of total smart-phone sales in the second quarter. But Gartner says it has reached saturation, as its phone market is driven by replacement purchases instead of first-time buyers.

Samsung “premium” phones continued to be challenged by Apple’s large-screen iPhones during the quarter, Gartner said. Samsung lost market share while Apple gained some.





A dense, overlapping collage of Apple Magazine covers from various years, creating a mosaic effect. The covers feature headlines such as "STEVE JOBS", "ANGRY BIRDS", "LOCK DOWN", "WWDC 2012", "iPhone 5", "Windows 8", "The New iMac", and "ANGRY BIRDS STAR WARS". The Apple logo is prominently displayed on many covers.

It's all about Apple

The background of the advertisement is a photograph of a modern, bright office or home workspace. A large window in the background looks out onto a lush green landscape with trees. In the foreground, a white desk holds a silver laptop, a pair of tortoiseshell-rimmed glasses, a black pen, a stack of papers, a black disposable coffee cup, and a small white container. The overall atmosphere is clean, organized, and professional.

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FINALLY! THE ROBOT FIGHTING ERA IS COMING...

ROBOTS HAVE LONG BEEN IN THE
HOLLYWOOD LIMELIGHT

We all think we know about robots. After all, they take center stage in blockbusting movies like *Terminator Genisys* and *Transformers: Age of Extinction*, and clash to spectacular effect in TV shows like ABC's recently revived *BattleBots*. However, so many question marks still arise when we look closer at the real world of robots. Many modern depictions of robots can seem, in light of the cold, hard facts about current robot technology, ambitious to the point of mythical. Still, how close is humanity to putting into action robots that are genuinely intelligent, large scale and capable of combat in both athletic and military environments?

VILLAINOUS, HEROIC, MISUNDERSTOOD... FICTIONAL ROBOTS DIFFER GREATLY

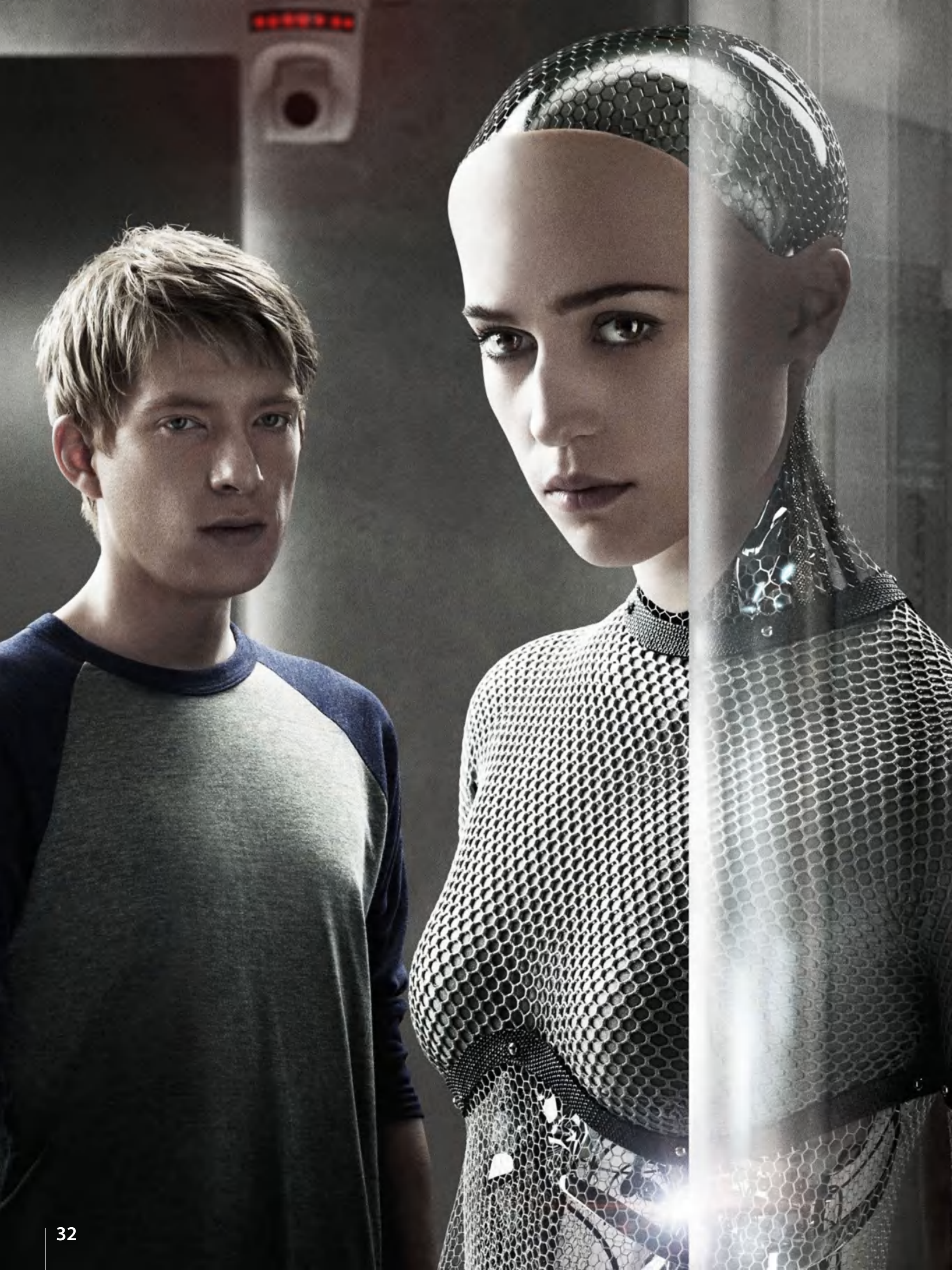
The public imagination has long been fascinated by robots. Taking robots to be defined as computers in a humanoid or mobile form, they have been depicted as talking bronze and clay statues in classical literature by the likes of Homer, Plato and Tacitus, and also mentioned by nineteenth century scribes including Charles Dickens and Jerome K. Jerome. Hollywood history, meanwhile, is littered with memorable giant automatons; two cinematic icons, King Kong and Godzilla, even got robotic doubles, Mechani-Kong and Mechagodzilla.

More modern and immediately recognizable fictional robots can differ hugely in their nature. The trope of villainous and threatening robots intent on the destruction of humanity or the earth is a well-worn one. Some fictional robots, however, are heroic in their defense of humans, like Detroit's futuristic law enforcement officer RoboCop. And then there are robots like the



ゴジラ vs メカゴジラ







little boy David in Steven Spielberg's A.I.: Artificial Intelligence and the title character of the animated film *The Iron Giant*, who are often well-meaning, but misunderstood and persecuted by humans.

Arguably one major reason why there is such a kaleidoscope of opinion concerning what future robots could be like is that robots are easy to simultaneously love and fear. Sure, they could be put to a wide range of useful, practical purposes - from running hotels and restaurants to assisting in disaster relief situations. However, robots landing in the wrong hands could be potentially used for much more destructive purposes - in turn necessitating other robots to counter their threat, and so the emergence of a very new form of warfare.

HUMANOID... BUT NOT YET CONVINCINGLY HUMAN

Could we soon frequently see the kind of advanced fighting robots depicted in movies like *Transformers* and *Real Steel*? The answer remains unclear. Alex Garland, the director of this year's well-received sci-fi drama *Ex Machina*, which tells the story of an leading IT company's development of a humanoid robot called Ava, described the film's time period as "ten minutes from now", explaining that "if somebody like Google or Apple announced tomorrow that they had made Ava, we would all be surprised, but **we wouldn't be that surprised**".

However, this kind of bold statement would be difficult for visitors to the recently opened Henn-na hotel, near the Japanese city of Nagasaki, to swallow. This hotel has been widely reported as the world's first with robot staffers, which helps





to explain why The Guardian's Monisha Rajesh was left distinctly disappointed following a stay in August. She found the robots at reception, including a female lashes-blinking humanoid, surprisingly limited in their functionality, leading her to observe that Henn-na "**turns out to need a surprising amount of human intervention**".


Rajesh's disappointment is understandable given Japan's status as a world leader in robotics technology. She was likely expecting robot assistants more along the lines of ASIMO, the advanced humanoid droid manufactured by one of the country's tech standard-bearers, Honda. That cute robot, with a height measuring 4 foot and 3 inches, was introduced back in 2000 and **intended to enhance the quality of life for people with impaired mobility**.

ASIMO has demonstrated many human-like abilities, **including kicking a football and handling stairs**.

WHAT CAN WE EXPECT FROM ROBOTS IN THE NEAR FUTURE?

In 2007, **Honda brought out a new, more intelligent ASIMO** capable of working with other ASIMO robots and carrying out tasks including pushing carts and serving tea. That certainly seems like the kind of robot that could be especially useful in a hotel. However, given that Honda has yet to even make any version of ASIMO commercially available, can the world really afford to feel confident of placing a huge number of useful humanoid and auto-guidance machines in various buildings, including not only hotels but also restaurants, schools and hospitals, in what remains of the 2010s?





And, surely, the reality of giant robots fighting in huge sports arenas and hostile battlefields must be, at least for the foreseeable future, entirely out of the question? Actually, the robotic future doesn't seem quite that clear-cut. In a video posted in mid-August, Mark Raibert, the founder of Boston Dynamics, the robot firm owned by Google's recently-formed holding company Alphabet, declared his ambition to "**build robots that rival humans and animals** or maybe even exceed humans and animals in their ability to move around in the world, manipulate things, perceive what's around them". He also cited a four-legged robot, called LS-3, designed for "anywhere a soldier might go".

ROBOT FIGHTING TO “BECOME ONE OF THE TOP THREE SPORTS IN THE WORLD”?

LS-3 must boast a rugged structure capable of protecting its delicate innards in dangerous terrain. So, is it another major step towards strong robots regularly clashing on the battlefield - another instance of science fiction, in this case the violent Terminator and Transformers movies, slowly becoming science fact? We reckon that not only could it indeed be, it is far from the only significant step.

In July this year, two robotics firms from opposite sides of the Pacific Ocean - US company MegaBots and Japanese rival Suidobashi Heavy Industries - agreed to stage a duel between their robots. This is no mere off-screen rehash of BattleBots; the robots will be huge, human-piloted by humans and wielding cannons capable of firing big paintballs at more than 100mph.

MegaBots co-founder Brinkley Warren has confidently told CNBC of his belief that “the MegaBots league that we’re building will become **one of the top three sports in the World within 10 years in terms of global audience, revenue, and engagement**”. It’s a vision reminiscent of the world portrayed in the 2011 sci-fi sports drama movie Real Steel, in which robot boxers have replaced human boxers.

However, Warren could be waiting much longer than he currently expects before there is a sufficiently high number of large arenas suitable for regular battles between giant robots. Neville Upton, who runs Gfinity, the company that gave the UK its first e-sports arena, has warned that “because it is a new



Image: Alex Gagne







sport and new ideas there is a lot of pioneering to be done. It's going to be a long journey".

HOW ROBOTICS COULD UNEXPECTEDLY TRANSFORM THE MILITARY

Robots with the build and abilities to effectively battle in arenas seem like ideal candidates for battle in war zones, too. It appears that BattleBots could also be seeking to build robots for this purpose, having declared in a video made public in August that **the dream of "the giant robot battles of science fiction" becoming real "is just one year away."** That timescale might be too ambitious, but there is certainly at least one major example of how the most renowned sci-fi movie franchise in history could be about to significantly influence military practice.

In June, it was reported that the British company Malloy Aeronautics was developing a hoverbike **which strongly draws upon drone technology and has already been manufactured in working remote-controlled forms.** The project has even attracted interest from the US military - meaning it isn't beyond possibility that, before too long, many soldiers could be flying on hoverbikes like Stormtroopers riding speeder bikes in the Star Wars films. Well, if it's good enough for soldiers of the Galactic Empire... ■

by Benjamin Kerry & Gavin Lenaghan





Team Usa Kickstarter for Giant Robot Duel

APPLE'S CHINA BUSINESS STRONG IN JULY AND AUG: TIM COOK TO CNBC

Apple Inc's China business experienced "strong growth" in July and August, Chief Executive Tim Cook told CNBC on Monday, seeking to assuage investor concerns over the company's prospects in a market considered critical for its growth.

iPhone activations in China had accelerated over the past few weeks and the App Store in China had its best performance of the year over the past two weeks, Cook told CNBC in an emailed response to questions about Apple's business in China.

A slump in China's stock market, slowing economic growth and Beijing's move last week to devalue the yuan have added to Apple's investors' concerns about rising competition from local rivals Xiaomi Inc [XTC.UL] and Huawei Technologies Co Ltd [HWT.UL]. Apple gets over a quarter of its sales from China.

Apple's shares slumped as much as 13 percent to a year-low of \$92 in early trading on Monday, amid a sell-off in the broader U.S. market.







The shares recovered to trade down 1.6 percent at \$104.02 as the market pared some losses and investor's took note of Cook's comments.

"Obviously I can't predict the future, but our performance so far this quarter is reassuring. Additionally, I continue to believe China represents an unprecedented opportunity over the long term ...," Cook said in the email.

However, Cowen and Company analyst Timothy Arcuri thinks Apple is likely see the impact of the China slowdown only over the next few months.

"I am concerned about a slowdown in Apple's demand from China and I think they haven't even seen the extent of it yet," said Arcuri.

The concerns over China were exacerbated last week after a Gartner report said smartphone sales in the country fell for the first time ever in the previous quarter.

China's smartphone market is widely believed to be close to saturation with fewer first-time buyers.

FBN Securities analyst Shebly Seyrafi said factors such as disappointing iPad sales and demand for Apple Watch have also weighed on Apple.

Verizon's recent move to stop smartphone subsidies and ask customers to buy phone though a contract was also a concern, Seyrafi said.



Image: Mark Blinch

THINGS TO KNOW ABOUT ASHLEY MADISON BREACH WHO'S AFFECTED



The spectacular breach at adultery site Ashley Madison gave rise to sordid tales of horrified spouses rushing to get tested for sexually transmitted diseases, frantic phone calls to lawyers and torrid confrontations with spouses. But hard information has been hard to come by. Even the true number of people affected by the breach has been clouded by uncertainty over how many of the roughly 39 million members Ashley Madison claims to have are genuine.

Here are some things to know about the adultery breach that has the world talking





HOW MANY PEOPLE HAVE BEEN AFFECTED

Ashley Madison claims to have had about 39 million members, but security experts who examined the internal records put the number of email addresses at 36 million. Of those, many appear to be bogus and some may have been registered with the site without their owners' consent. Even among those who did, it's not clear how many used the service to seek extramarital affairs. The Associated Press spoke to a dozen people who said they signed up once or only visited a couple of times without actually meeting anyone. One St. Louis-area resident told AP he and his wife registered his email with the site when they visited out of curiosity several years ago. Neither ever returned. He spoke on condition of anonymity because he did not want to draw attention to his connection to the site.

WHO'S LOOKING THROUGH THE DATA

Several governments have announced investigations following revelations that bureaucrats signed up to the adultery website using their work emails. But suspicious spouses - or just nosy acquaintances - are also browsing the data. The St. Louis man told AP he was alerted when a friend called him to say he found his name in the dump. Chicago-based Charles Black, who along with partner Jacob Gilman briefly ran a website allowing people to check emails and telephone numbers against the database, said he recorded 500,000 unique visitors in just 48 hours.

Our motivation for doing this is mainly just the fun of creating a tool which people on the Internet find useful, Black said in an email.



WILL WE SEE A RUSH TO THE DIVORCE COURTS

Lawyer Susan Moss predicted a tsunami of new cases, but family law experts are divided whether the hack will lead to significant increase in the divorce rate. New York divorce attorney Michael DiFalco said he believed there would be a dozen clients caught by text message for every client that might get caught this way.

There are scattered signs of extra interest. Nigel Shepherd, an attorney with British firm Mills & Reeve, told The Times of London that a woman had contacted him after finding her husband's name in the dump - a case British media are already describing as the first Ashley Madison divorce.

Moss, a partner with New York firm Chemtob Moss and Forman, advised wayward husbands and wives to come clean quickly.

The news always is better received if coming from the cheating spouse directly, she said.



SO ARE CHEATING SPOUSES CONFESSING

Not all of them. Kristen V. Brown, a tech reporter at Fusion who has had telephone interviews with two dozen Ashley Madison users, said many of those she spoke to were trying to lie low.

The people I interviewed that were in a committed relationship really feared that this would be the end of it, she said in an email. A lot of them hoped it would just blow over - they didn't want to have to deal with telling their partner about it.





WHAT DOES ASHLEY MADISON SAY

Not much.

The hackers who struck Ashley Madison have accused the site of filling it with fake profiles and extorting fees for wiping profiles that were never truly deleted. Avid Life Media Inc., the site's owner, has not returned AP messages about the alleged practices.

In fact, the site has said little beyond a statement released Tuesday in which it slammed the break-in as "an act of criminality."

"These are illegitimate acts that have real consequences for innocent citizens who are simply going about their daily lives," the company said.

DELETED ONLINE INFORMATION NEVER ACTUALLY GOES AWAY

The Ashley Madison hack is a big reminder to all Web users. If you submit private data online, chances are it will never fully be deleted.

The hackers, who stole the data about a month ago and then posted it online this week, claimed in a statement that part of the reason for the theft was Ashley Madison's fraudulent promise to fully delete users' information if they paid the company a \$19 fee.

The website - whose slogan is Life is short. Have an affair - is marketed to people looking for extramarital relationships. It purports to have about 39 million members.



https://www.ashleymadison.com — Ashley Madison® - Married Dating & Discreet encounters - Have An Affair

Members Login ▾

ASHLEY MADISON®

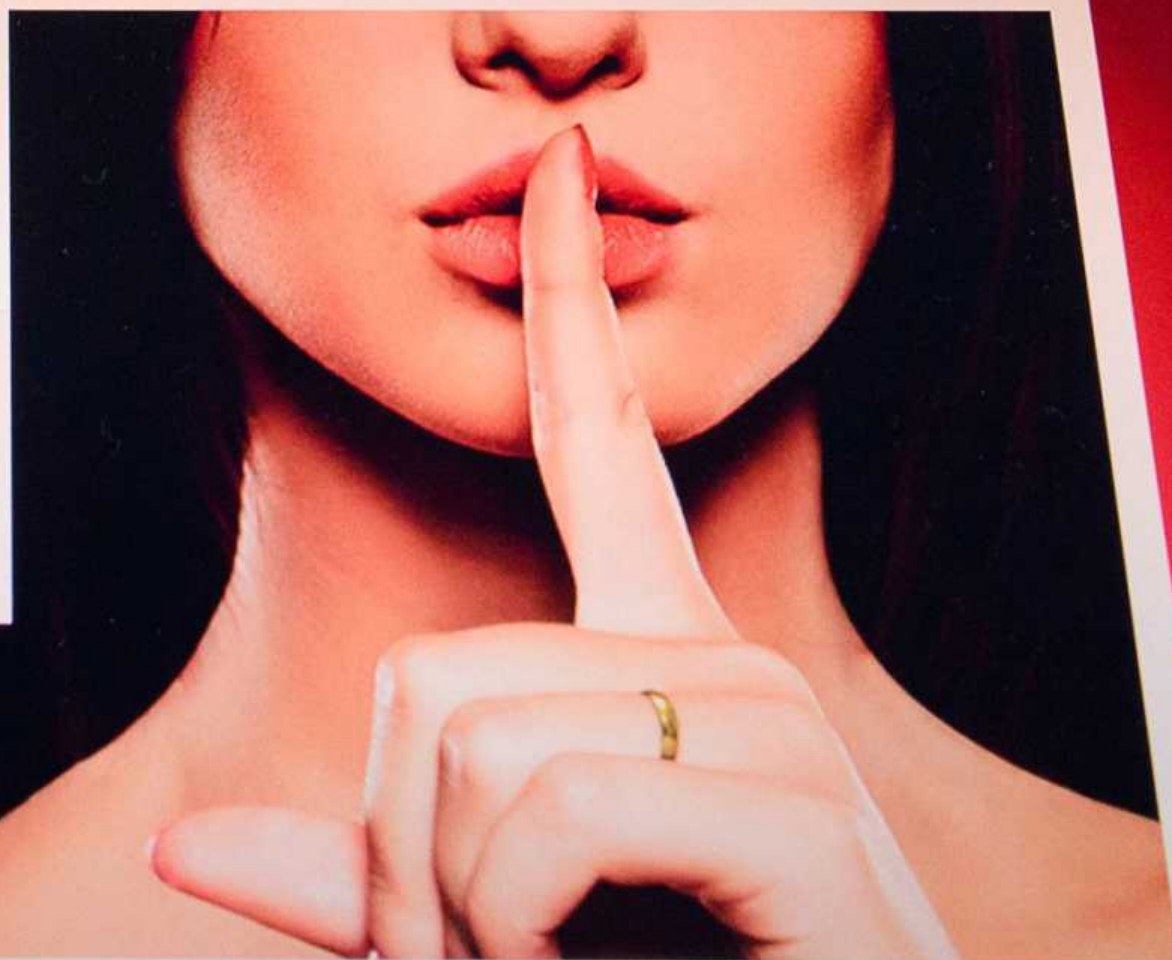
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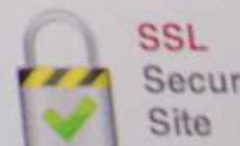
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As seen on: Le Parisien,
Le Figaro, Elle, Huffington
Post, France 2, Canal+

Ashley Madison is the
world's leading married
dating service for **discreet**
encounters





The hackers said the company failed to delete the information, even though it collected the fees. Toronto-based Avid Life Media Inc., Ashley Madison's parent company, hasn't commented on the hackers' accusation. A company spokesman didn't respond to multiple emails seeking comment.

It's virtually impossible to exist in modern society without putting at least some personal information online. Many people can't get through a day without using the Internet to shop, pay a bill, or check their credit card balance.

People have become accustomed to trusting their most precious personal information to companies. But they also need to know that all of that information is being shared more than they would expect, privacy experts say.

Before you hit submit, stop and think before giving up your personal information to any kind of website, said Michael Kaiser, executive director of the National Cyber Security Alliance, an industry-funded group that educates consumers about cybersecurity.

Personal information is like money, and you don't just give away your money, Kaiser says. In the environment we're in right now, you have to value it and think about protecting it everywhere you go on the Internet.

That means taking a look at a website's business to get an idea of how much they value information security and even asking them about their data retention practices. Banks, which deal in financial information, and large retailers, who have a vested interest in getting people to shop online, are probably safer bets than a dating site.

Ashley Madison actually charges you to remove your information when you remove your account, he says. That's a big clue about how they feel about your personal information.

People also need to sometimes take a pass on convenience in the name of online security.

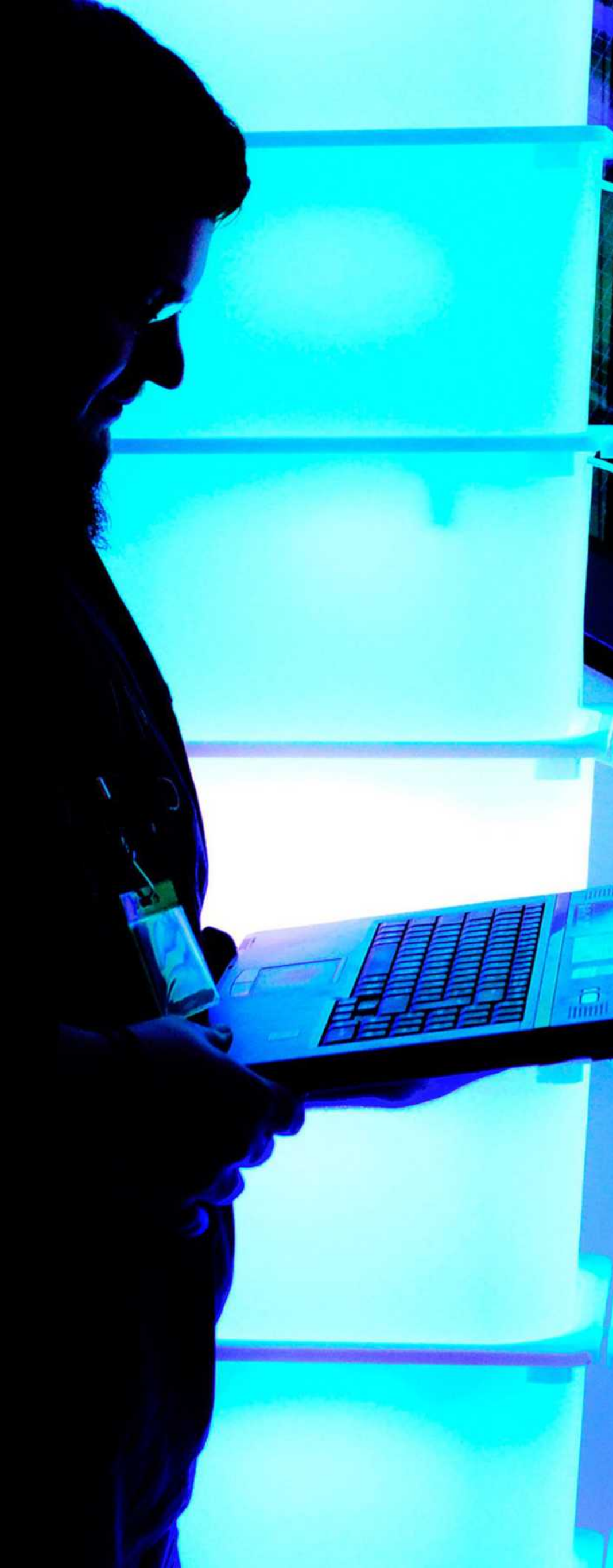
Many consumers like it when e-commerce sites have their credit card and other information on file, or when Web browsers automatically fill in forms with their name, address and other details, says Peter Tyrrell, chief operating officer of the data security firm Digital Guardian. Meanwhile, worries about data theft and loss have prompted companies to back up important information in multiple places.

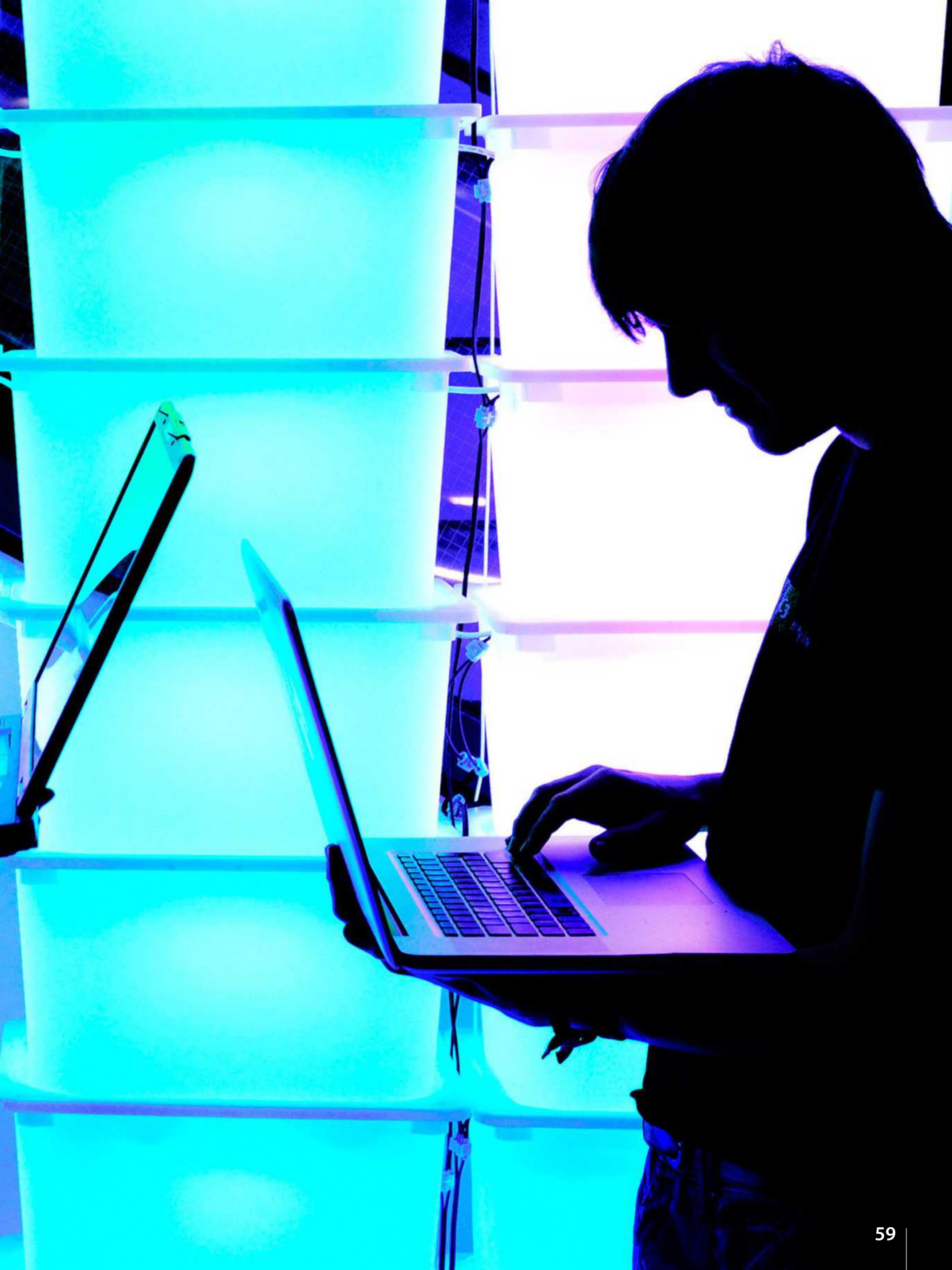
But both practices increase the likelihood that information could be leaked or shared. And it means that even when a person thinks that their information has been permanently deleted, chances are there are still copies floating around somewhere.

Ashley Madison is a company with a service that's completely predicated on privacy, Tyrrell says, adding that that characteristic sets it apart from many traditional e-commerce sites such as retailers.

Here the capital, so to speak, isn't a credit card or consumer goods. The capital is personal information that if released could be ruinous personally, and financially too.

Breaches, whether they be at a major retailer such as Target Corp., a health insurance company such as Anthem Inc., or Ashley Madison, have become so common that people should give some serious thought before putting personal information





online, says Caleb Barlow, a vice president at IBM's security division.

And while Social Security numbers weren't involved Ashley Madison hack, people should be especially wary of using them as a backup password to access online information, given the potentially disastrous consequences that could result if they're intercepted, he says.

Why are we using Social Security Numbers for both identification and access he questions. Any data that can never be changed can be used for identity, but should never be used for access.

And no matter how legitimate a company or website may be, people need to be aware that they're rolling the dice every time they hand over personal information.

Scott Vernick, partner and head of the data security and privacy practice at the law firm Fox Rothschild LLP, says consumers have the right to expect a certain level of online security, depending on the industry standards of the company they're dealing with.

But those expectations have to be muted by the knowledge that they're always taking a risk, whether they're ordering from Amazon Prime or from Ashley Madison, Vernick says.



ASHLEY MADISON®

Life is short. Have an affair.®

Get started by telling us your relationship status:

Please Select

[See Your Matches »](#)

Over **37,765,000** anonymous

Ashley Madison is the
world's leading married
dating service for
discreet encounters

[Press](#) [FAQ](#) [Guarant](#)

**RUSSIAN
EXTENDS
TRAVEL
TIME TO
INTERNATIONAL
SPACE
STATION**


MOSCOW (AP) - The Russian Federal Space Agency says the next manned trip to the International Space Station will be extended from the usual six hours to two days.

Roscosmos said in a statement released on Wednesday that the decision was made due to security concerns after the space lab had to adjust its orbit last month, dodging space junk.

The roll-out of a new Soyuz rocket in March 2013 allowed Russia to cut travel time to the orbiting lab from two days travel in cramped quarters to just six hours.

The next manned mission to the ISS is due to blast off from the Russia-leased launch pad in Kazakhstan on September 2, carrying a Russian, a Kazakh and a Dane.





UNIVERSITY STUDENT PLEADS GUILTY TO MAKING ANDROID SPY APP

A Carnegie Mellon University student who hoped to sell enough malicious software to infect 450,000 Google Android smartphones pleaded guilty Tuesday to a federal law meant to prevent hacking of phones and computers.

But how many phones were actually infected by Morgan Culbertson's malicious creation remained a mystery after his court appearance before a federal judge in Pittsburgh. Infected phones could be remotely controlled by others and used to spy and secretly take pictures without the phone owner's knowledge, as well as to record calls, intercept text messages and otherwise steal information the owners downloaded on the devices.

Culbertson, 20, of Churchill, faces up to 10 years in prison and \$250,000 in fines when he's sentenced Dec. 2. But he'll likely face probation or a short prison term under sentencing guidelines that will take into account his lack of a criminal record.

Culbertson is one of 12 people charged by U.S. authorities, and the fourth to plead guilty so far, in the worldwide takedown of the Darkode.com cybercriminal marketplace.

A total of 70 people have been targeted for allegedly using the cybercriminal marketplace where hackers bought and sold malicious software, and otherwise advertised schemes to infect computers and cellphones with software that could cripple or illegally control the devices.

"I committed the crime, so I am responsible," Culbertson told Senior U.S. District Judge Maurice Cohill Jr. on Tuesday and apologized to those whose phones were affected by the malware.

"I understand what I did was wrong and I take full responsibility," Culbertson said. "I would like in the future to use my skills to help protect people."

Culbertson said he has taken a leave of absence from Carnegie Mellon, where he's completed his sophomore year. He previously interned for a cybersecurity firm in California's Silicon Valley.

Assistant U.S. Attorney Jimmy Kitchen said Culbertson worked online with a man identified only as "Mike from the Netherlands" to create Dendroid, the malware that was secretly linked to Android phone apps available for purchase through Google Play.







Gmail



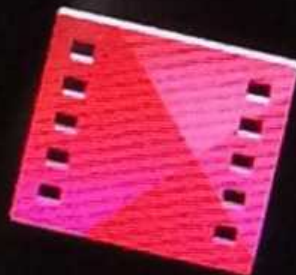
Google+



Maps



Play Music



Play Movies



Play Books



Play Ne



YouTube



Hangouts



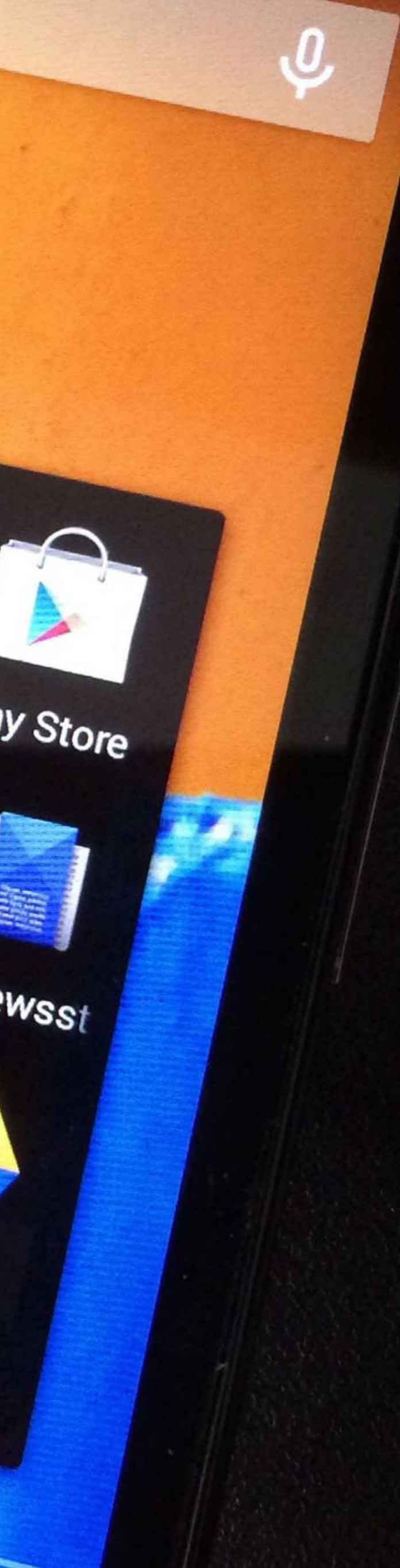
People



Drive

Google





Culbertson developed the “binder” - or computer code used to hide Dendroid on the apps - with another unidentified man, then “bought out” Mike’s share of the operation and planned to sell 200 to 300 copies of the malware on Darkode.com for \$400 a copy, Kitchen said.

Culbertson expected each person who bought Dendroid would be able to infect about 1,500 phones with it, or 300,000 and 450,000 phones total.

Culbertson also tried to sell the “source code” that would enable others to make their own copies of Dendroid for \$65,000 and at an online auction for \$10,000, but defense attorney Emily McNally said that never happened.

Kitchen wouldn’t say how many Dendroid copies Culbertson actually sold.

McNally said Culbertson personally used a copy to infect and control about two dozen phones, though some of those were Culbertson’s and were controlled for testing how Dendroid worked.

She and Culbertson declined comment after the hearing.

ANGRY BIRDS MAKER ROVIO PLANS LAYOFFS IN RESTRUCTURING

HELSINKI (AP) - Popular mobile games maker Rovio Entertainment said Wednesday it plans to lay off up to 260 people, or about a third of its workforce, because the company took on "too many things" during the past few years.

Rovio says it will restructure the Finnish company to focus on three core activities of games, media and consumer products. The exact number of layoffs, to be announced later, will affect the organization worldwide, excluding teams in the United States and Canada working on the Angry Birds Movie, scheduled for release in May 2016.

Most of the cutbacks will hit some 230 employees in Finland, said Rovio spokeswoman Kaisu Karvala.

"This is, of course, the saddest day in the history of Rovio," Karvala said. "But it also means we'll be focusing in the future only on the business sectors we believe in."

CEO Pekka Rantala said Rovio's new game, Angry Birds 2, had been downloaded nearly 50 million times since its July 30 launch.

"While we have gathered good momentum this year ... fundamental changes are needed to ensure Rovio succeeds in its global ambitions to be the leading entertainment company with mobile games at its heart," Rantala said. "It is certain that a leaner and more agile Rovio is absolutely necessary to move forward and take the company to new successes in the future."

Rovio, founded in 2003, also sacked workers last year as it had expected greater growth from the popular Angry Birds game, which had helped the privately-owned company grow by double-digits. It has estimated that more than 200 million people play the game, launched in 2009.



iTunes

Review

Movies & TV Shows

Rotten Tomatoes



98%



iTunes Preview



by George Miller
Genre: Action & Adventure
Released: 2015
Price: \$19.99

★★★★★
724 Ratings



Trailer

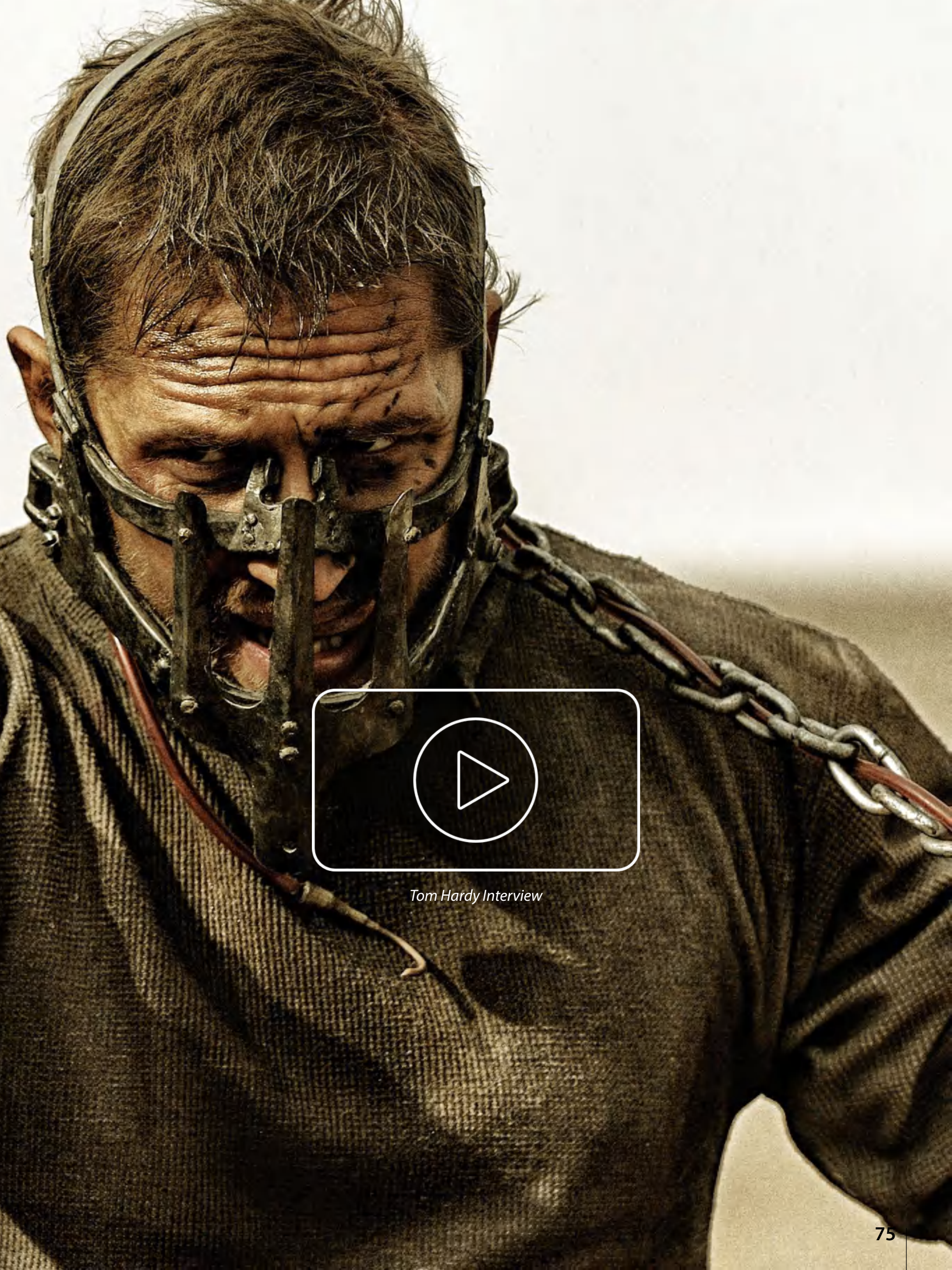
Mad Max: Fury Road

In a post-apocalyptic desert wasteland where gasoline and water are hard to come by, Max Rockatansky (Tom Hardy), with assistance from Imperator Furiosa (Charlize Theron), mans an armored tanker truck in a bid to escape the sights of cult leader Immortan Joe (Hugh Keays-Byrne). The culmination of this is a long battle on the road.

FIVE FACTS:

1. This is the fourth film in the Mad Max franchise.
2. This movie is, like the three preceding Mad Max movies, directed by George Miller.
3. Though Mel Gibson was originally intended to reprise his role as the title character, Miller recast due to “all the turbulence in [Gibson’s] life” and **a desire for Max to remain a young “contemporary warrior”**.
4. The movie has received huge critical acclaim; there have even been suggestions that it is **one of the best action movies ever made**.
5. In May, Miller revealed that **the next Mad Max film will be called Mad Max: The Wasteland**.





Tom Hardy Interview

She's Funny That Way

Broadway director Arnold Albertson (Owen Wilson) casts Isabella "Izzy" Patterson (Imogen Poots) - one of his call girls, but now eager to thrive as an actress - in his latest production, A Grecian Evening. The playwright, Joshua Fleet (Will Forte), then also falls for Izzy, despite dating her therapist Jane Claremont (Jennifer Aniston). These and other characters end up in a calamitous love tangle.

FIVE FACTS:

1. She's Funny That Way is a **screwball comedy from the esteemed director Peter Bogdanovich**.
2. The film's development can be traced back to about 1999 or 2000, when Bogdanovich and his ex-wife Louise Stratten wrote a script which provided the initial spark.
3. The movie was originally to be called Squirrels to the Nuts, but was changed as many people mistook it for a children's film.
4. At different stages, Brie Larson and Olivia Wilde were cast in Imogen Poots' role, and later **dropped out for the same reason: scheduling conflicts**.
5. This is the **first film that Bogdanovich has directed since The Cat's Meow**, released in the US in 2002.



iTunes Preview



by Peter Bogdanovich
Genre: Comedy
Released: 2015
Price: \$6.99 Rent HD

★★★★★
45 Ratings



Trailer

Rotten Tomatoes
 34%





Imogen Poots Interview



iTunes

Review

Music



iTunes Preview



Genre: Rock
Released: Aug 21, 2015
10 Songs
Price: \$11.99



168 Ratings



Saturday Night Gave Me Sunday Morning

Burning Bridges

Bon Jovi

Firmly established as members of American rock royalty, with hits like “Livin’ on a Prayer” and “It’s My Life” under their belts, there has understandably been eager anticipation for the release of their thirteenth studio album, what Jon Bon Jovi has called a “fan record”: Burning Bridges. It is the band’s first studio album without guitarist Richie Sambora.

FIVE FACTS:

1. Bon Jovi was formed in 1983.
2. The band has sold **over 120 million albums worldwide**.
3. Jon Bon Jovi says that Burning Bridges includes **“songs that weren’t finished, that were finished, [and] a couple of new ones”**.
4. He has also indicated that the album provides “sort of a hint as to where we’re going musically, but the new album, the real new album, will be early next year.”
5. The album’s second single, “We Don’t Run”, has been described by Billboard as having **“meaty production and a shredding guitar solo”**.





We Don't Run

El Amor

Gloria Trevi

Often dubbed the 'Madonna of Mexico', Gloria Trevi has been active since 1989, when she had her first number one hit, "Dr. Psiquiatra". El Amor is her tenth studio album, and could add to her many big musical achievements, which have included topping the Billboard Latin charts with the singles "El Recuento De Los Daños" and "La papa sin catsup" in 1994.

FIVE FACTS:

1. The music channel VH1 has referred to Trevi as the **"Supreme Diva of Mexican Pop"**.
2. Trevi has sold **over 20 million albums globally**.
3. El Amor has been described as a concept album exploring various aspects of love.
4. The album also includes Trevi's **interpretations of classic songs of Latin music**.
5. In July, Trevi **expressed interest in becoming a movie director**.

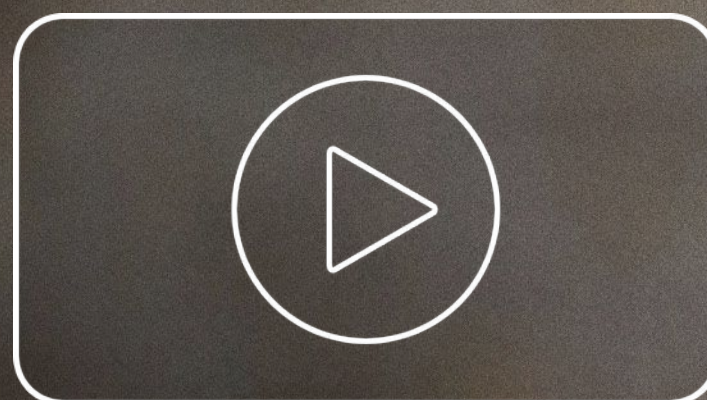


iTunes Preview



Genre: Latin Pop
Released: Aug 21, 2015
14 Songs
Price: \$9.99

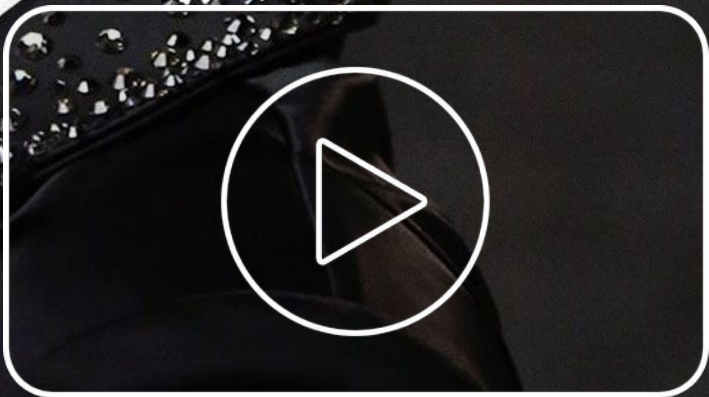
★★★★★
11 Ratings



Como Yo Te Amo







Las Pequeñas Cosas

TECH STARTUPS WANT TO CHANGE THE WAY YOU DRIVE

A veteran computer scientist hates sitting in his car at stop lights, so he creates software that makes the experience less annoying. A former engineering professor wants to double the range of today's electric vehicles. And an aeronautics expert believes flying cars shouldn't be science fiction.

It's no secret that technology is changing the car industry. The major automakers, as well as tech giants such as Google and possibly Apple, are laying the groundwork for the first driverless cars.

Meanwhile, a number of engineers and entrepreneurs have started their own companies to tackle other automotive challenges. Here are six startups that want to change the way you drive:

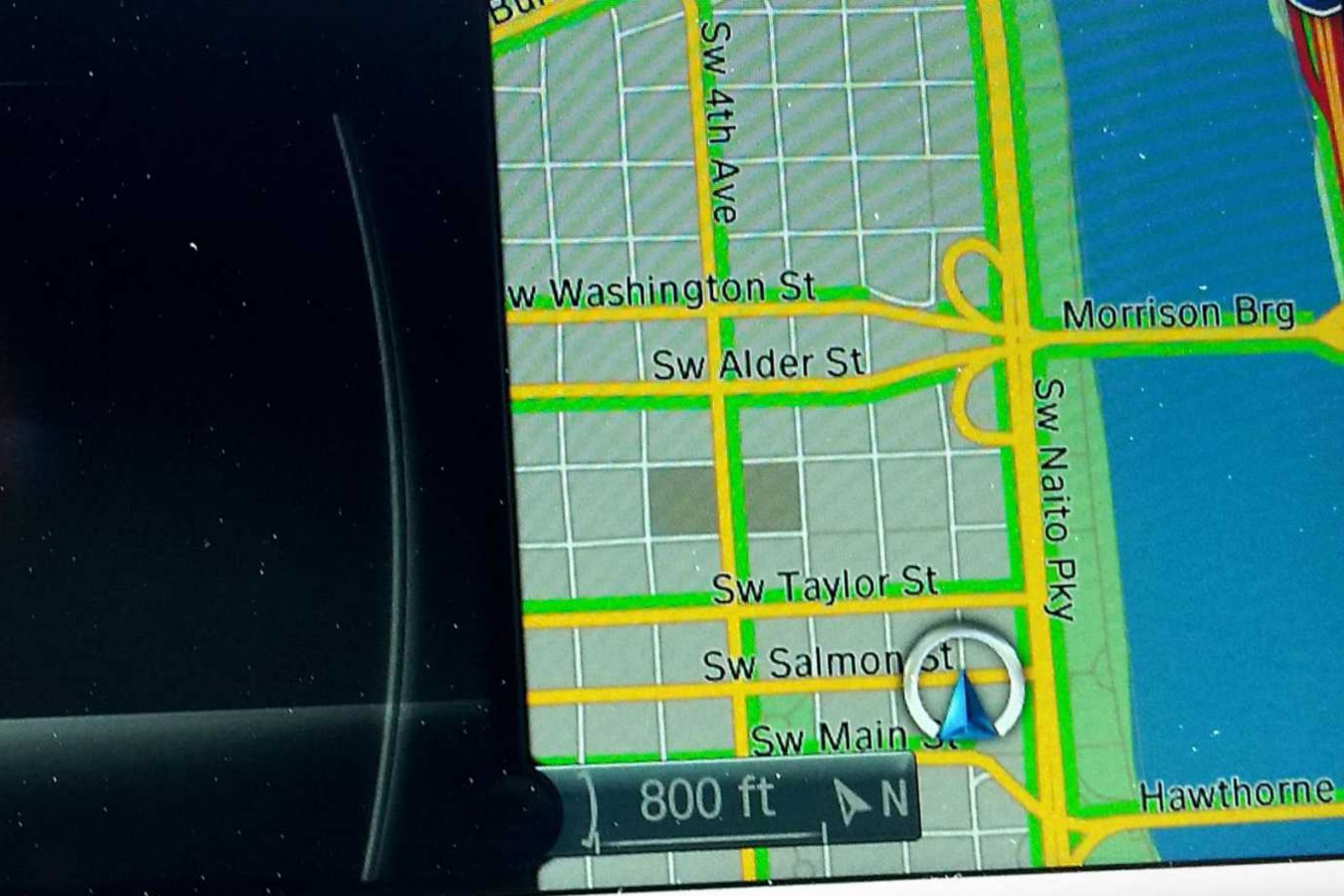






12:08 pm





CONNECTED SIGNALS:

Traffic lights bring order to intersections, but have their inconveniences: They turn red when you're in a hurry; they take forever to change green. And then your mind wanders while you wait - until the guy behind you starts leaning on his horn.

Entrepreneur and computer scientist Matt Ginsberg hates red lights. So he started Connected Signals, based in Eugene, Oregon, to collect real-time data from cities that synchronize their traffic signals. The company's smartphone app tells motorists if an upcoming

signal is about to change color. It shows drivers how long they'll have to wait if a light is red - and chimes a warning just before it turns green.

The app helps prevent distraction, unnecessary acceleration and delays, Ginsberg says. BMW has added it to its driver display. Ginsberg also sees an opportunity in selling data for automotive systems that shut off a car's engine to save gas during longer red lights. One hurdle is getting the raw data from individual cities: Ginsberg has agreements with about 100 towns and hopes to cover half the United States by 2017.





PARKME:

Sam Friedman and Alex Israel missed the start of a movie because they couldn't find a place to park. That's when the two young men, friends since kindergarten, decided to launch a company.

Los Angeles-based ParkMe is one of several startups with smartphone apps that help drivers find, reserve and pay online for parking spots. But it's gone further than most in solving the data hurdle: ParkMe boasts parking information from 1,800 cities around the world, much of it collected via live feeds from ticket dispensers at commercial and municipal lots.

ParkMe also gets street parking data from meters that accept credit cards and from cities that use pavement sensors for parking enforcement. While it uses the data in its apps for drivers, ParkMe also sells it to planning agencies and car companies, including Audi, for their navigation systems.

METROMILE:

That little diagnostic port under your car's dashboard isn't just for mechanics. It can provide useful information for drivers and insurance companies, too.

Several startups use matchbox-sized devices that plug into the port and send information on a car's performance to the driver's smartphone. San Francisco startup MetroMile goes further. It sells car insurance on a pay-per-mile basis, using a similar device to verify the miles driven.

Other insurance companies are trying similar devices to track drivers' behavior, but MetroMile says it won't penalize a customer for speeding or slamming the brakes. The company promises significant savings for people who don't drive much. That may limit the potential market, although CEO Dan Preston says drivers also get useful information from MetroMile's app.

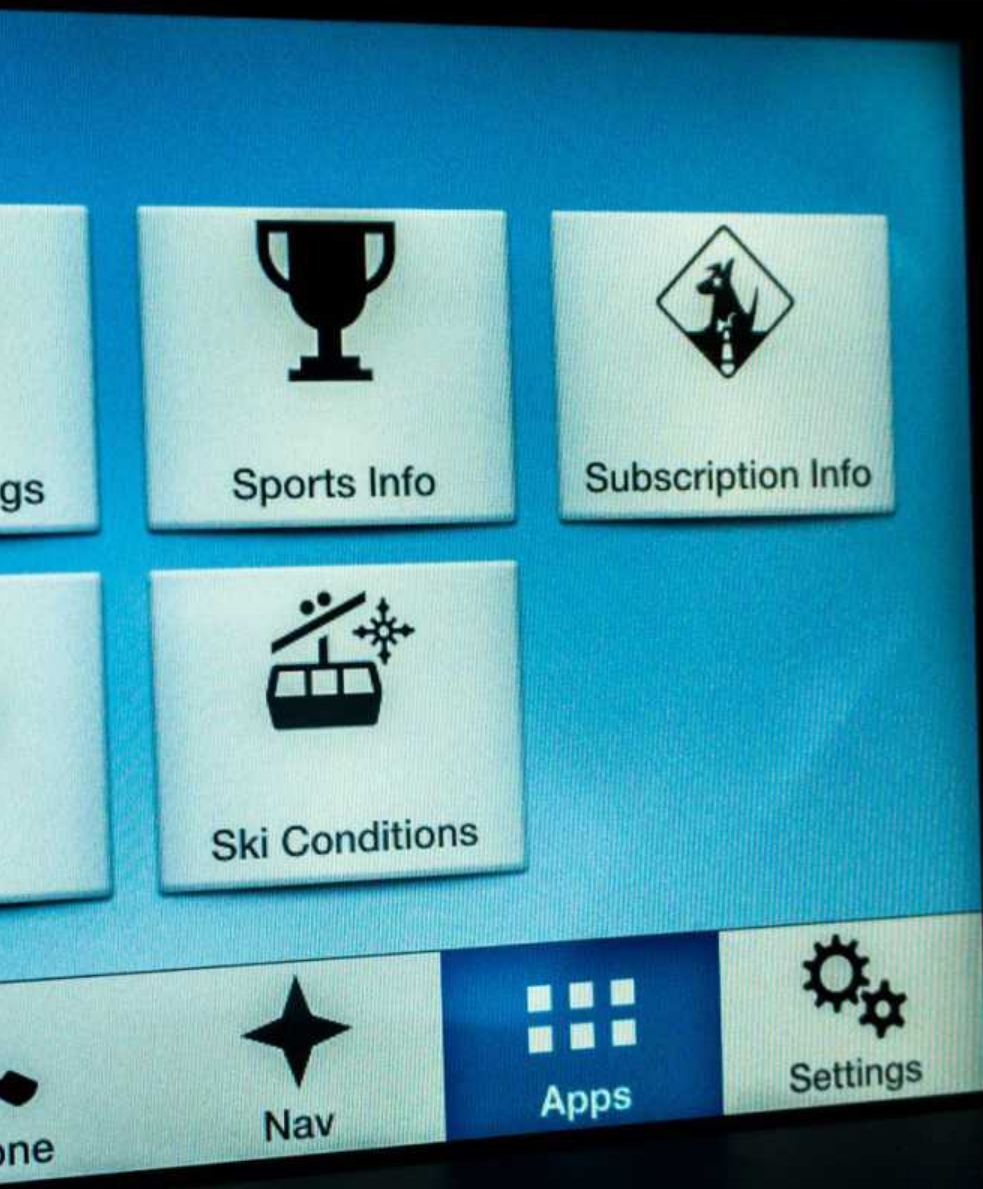


CRUISE:

You don't need to wait years to enjoy autonomous driving. At least that's the premise behind Cruise Automation's "highway autopilot" kit.

Cruise engineers have retro-fitted some recent Audi models with prototype kits consisting of rooftop sensors, a computer in the trunk and controls that fit behind the steering wheel. Founder Kyle Vogt says the system will keep a car within its freeway lane, while steering around curves and maintaining safe distance from other vehicles.

Vogt, a software engineer who helped launch streaming video service Twitch.tv, told The Associated Press in December that he hoped to deliver the first Cruise kits to customers this year. But he stressed the importance of testing before releasing the product, to ensure it is safe. While Cruise received a permit in June to conduct tests on California highways, a spokesman recently declined comment on its timetable.



SAKTI3:

Most electric vehicles on the market only go 100 miles on a charge. A better battery is the industry's "Holy Grail," says investor Quin Garcia of Auto Tech Ventures, which funds automotive startups.

Sakti3, based in Ann Arbor, Michigan, is among several startups trying new approaches to lithium-ion batteries. Founder Ann Marie Sastry, a former engineering professor at the University of Michigan, was invited to a White House event this month to explain her ideas for making powerful batteries more cheaply.

It's not enough to come up with an idea for a new battery, Sastry said. "If you can't make it cost-effectively, you can't have an impact." She's using computer simulations to design processes for making solid-state batteries that are lighter and hold twice the energy, providing more range. Appliance-maker Dyson Inc. has invested in Sakti3 and wants to use its technology. General Motors is also an investor.





TERRAFUGIA:

Terrafugia, a privately backed startup in Woburn, Massachusetts, admits on its website that flying cars have become a pop-culture symbol for dreams that don't come true. CEO Carl Dietrich wants to change that.

Two years ago, Dietrich and his co-founders - all MIT graduates - wowed observers at a Wisconsin air show by flying a gasoline-powered light plane the size of an SUV, which can fold its wings and meet legal requirements for highway driving. The company hopes to deliver a version to customers in 2017, at an anticipated price of \$279,000.

Terrafugia is also working on a concept for a sleeker, electric-powered vehicle with rotors for vertical takeoff. But Dietrich acknowledged it will take years to achieve his goal of using software and automation to build a car that doesn't require a pilot's license to fly.

"Our first product is very much an airplane that can be driven," Dietrich says, "but it's putting our company in position to make a car that can fly."

**TACKLING
GOES
HIGH-TECH
AT
DARTMOUTH
WITH NEW
DUMMIES**

HANOVER, N.H. (AP) - On the Ivy League campus of Dartmouth College, even the football tackling dummies are smart.

The team introduced a new MVP as the first practice of the season got underway Wednesday. Not a most valuable player, but a "Mobile Virtual Player" - a padded, remote-controlled figure designed to allow players to make full contact while minimizing head and neck injuries.

The project started two years ago when coach Buddy Teevens asked Dartmouth's engineering school to create a safer way for players to practice tackling. Students, some of them athletes themselves, came up with a motorized system encased in foam that simulates a real football player in size, weight, agility and speed. While other teams use dummies that remain stationary or run along tracks, Dartmouth officials say their dummy's maneuverability and nimbleness sets it apart.

"This not only cuts out injury risk during practice because you have less player-to-player contact, but you're also allowing players to practice realistic form in an in-game scenario, which they don't get without live play," said former engineering student Quinn Connell, who helped design the MVP. "We were able to come up with a solution that's a mobile, free-standing, self-righting tackling dummy that's also able to be re-set and be completely autonomous."

The dummy's debut comes amid growing concerns about concussions, fueled by cases of former professional players who suffer long-term impairment after repeated blows to the head. The NFL expects about 6,000 former

players to develop Alzheimer's disease or moderate dementia in the coming decades, and under the terms of a settlement currently under appeal, would pay \$1 billion to about 20,000 players. The league also donated \$2.5 million to help launch an institute focused on the prevention of treatment of concussions and other sports-related injuries at the University of Washington.

"The only time my guys tackle is 10 times a year in games," said Teevens. "So this will allow them to be more proficient and more successful, and I think injury reduction and concussive injury reduction is going to be huge for us."

Dartmouth's dummies cost about \$3,500 to manufacture. Researchers have a patent pending and are developing a business plan to market it to pro, college, high school and youth teams. Future models will be programmable with various drills and will more closely resemble the human form. Dartmouth hasn't named its MVPs, though one sported a green No. 52 team jersey during practice.

Players who got their first look at the prototype Wednesday cheered as their teammates took turns tackling the dummies, which wobbled and bounced back up, ready for the next player.

"It's going to totally change the game for us," said linebacker and team captain Will McNamara. "We're big on making sure we protect each other, so being able to hit a pad as opposed to a player is huge."

Teevens described his own experience with the dummy as realistic, though not entirely successful.

"I bounced off it," he joked.





STUDY: FEMALE DIRECTORS MAKE WORK GAINS; MINORITIES LAG

Female directors are getting slightly more work in the expanding world of TV series and outlets, but the same can't be said for their minority counterparts, according to a new Directors Guild of America study.

Women directed 16 percent of the nearly 4,000 episodes that aired last season, a year-to-year increase of 2 percent, the guild found.

Minorities, both male and female, directed 18 percent of episodes, a 1 percent dip, according to an analysis of episodes from nearly 280 broadcast, cable and online series from the 2014-15 season.

Both the TV and movie industries have long been under scrutiny for a lack of opportunity for women and minorities, with studies by entertainment unions and others finding that the preference for hiring white men is deeply entrenched.

The TV “pie is getting bigger,” the directors guild noted in the annual study released Tuesday, with the total of 3,910 episodes representing a 10 percent increase over the previous season.

But the video-on-demand services that are contributing to the explosion of choices are also abetting the status quo, the guild said.

Netflix, Amazon and PlayStation fielded series that appeared on the guild’s “Worst” list of 61 shows that hired women or minority directors for fewer than 15 percent of episodes.

Some didn’t hire any women or minorities for the season studied, the guild said, including Netflix’s “Marco Polo” and PlayStation’s “Powers.”

“The uptick in the number of episodes directed by women - modest but hopeful - is just a drop in the bucket of what needs to be done



by studios, networks and showrunners before we can begin to realize equal opportunities in television for our members,” guild President Paris Barclay said. “With so many more episodes and work opportunities, employers should seize the opportunity for diversity with their choices, especially when it comes to first-time episodic directors.”

Of the 128 first-time TV directors hired in the 2014-15 season, 84 percent were male, up from 80 percent in the previous season - hiring that has a “significant impact” on the hiring pool over time, the guild said.

For women, the study found a 21 percent year-to-year growth rate in directing jobs, from 509 episodes in the 2013-14 season to 618 episodes in the 2014-15 window.

While there was a 5 percent increase in the number of episodes directed by minorities - to 694 from 660 in 2013-14 - that represents half the percentage increase in total episodes.

The number of shows without any female or minority directors on the “Worst” list was up 17 percent over the previous season, the study found. Entries from the cable and broadcast world include HBO’s “Boardwalk Empire”; Disney Channel’s “Girl Meets World”; Fox’s “Gracepoint”; Showtime’s “Masters of Sex”; and CBS’ “Mom.”

The 57 shows that made the “Best” list, with at least 40 percent of episodes directed by women or minorities, include “The Game,” among three BET series with all minority or female directors; CBS’ “The McCarthys”; Fox’s “Empire”; ABC’s “American Crime”; CW’s “Jane the Virgin” and Showtime’s “Homeland.”





SCIENCE

SCIENTISTS
CREATE
360-DEGREE
IMAGES
OF HAWAII
CORAL REEFS









Alongside the lush and steep windward coast of the Hawaii island of Oahu researchers are creating images of coral reefs that are in danger of dying because of warm ocean waters.

They are taking high-definition 360-degree panoramic images of the reefs and using them to monitor and study the health of corals over time. Scientists working with the team say they are concerned about how much coral off the coast of Hawaii already is beginning to bleach, especially because it's the second such event in two years.

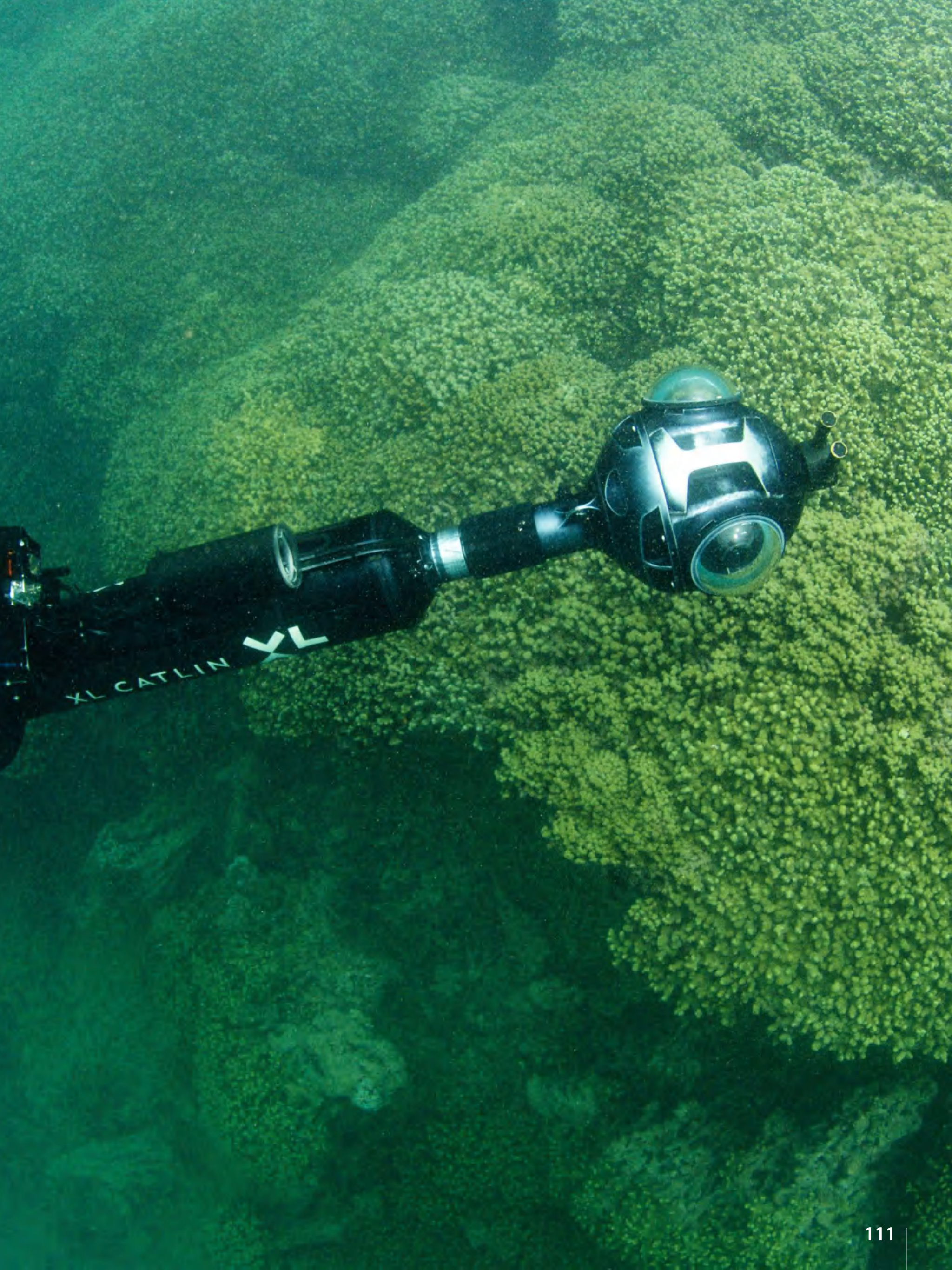
Coral bleaching occurs when ocean water temperatures rise and cause the coral to lose key nutrients, turning the normally colorful organism white. If bleaching recurs or is severe, experts say the coral will die.

Reefs off the coasts of the Hawaiian islands suffered a rare bleaching event in 2014, and experts say when corals don't have time to recover from one bleaching they are less likely to survive subsequent events.

Extensive coral bleaching is expected again this year in Hawaii because of record hot weather in the region, a strong El Nino weather pattern and what scientists call "the blob," a large area of hot water not directly linked to El Nino that is moving westward from the United States mainland.

"Unfortunately, from now on the extra heat is going to be quite damaging, and this is where the mortality of the corals goes up," said Ove Hoegh-Guldberg, director of the Global Change Institute at the University of Queensland and the research team's chief scientist.









The Hawaii reef mapping is part of a larger project by the XL Catlin Seaview Survey research team to make thousands of images of reef around the world. Researchers are trying to understand why certain species of coral are more susceptible to bleaching than others, and they hope to find organisms that can adapt to warmer waters and remain healthy.

The researchers use GPS tags and facial recognition technology to help identify and organize individual reef systems. As part of the project, the survey team has partnered with Google and uploads the images to Google Street View, allowing people to explore the underwater ecosystem via the Internet.

The Seaview Survey has already gathered data from other reefs including those in the Maldives, Mexico, Indonesia and Australia. The team had baseline images of a section of the Great Barrier Reef that was later damaged by a typhoon. The crew went back to capture the damage, giving researchers a clear view of the loss involved with a major storm.









Dr. Manuel Gonzalez-Rivero, a postdoctoral research fellow at the University of Queensland and a member of the survey crew, said the team uses similar technology to what Facebook uses to recognize people in photos.

"We apply that to coral," he said. "We train it in a way so that the machine starts recognizing different types of corals, and it can process about 500,000 images in about a week."

He said that's about 30 to 50 times faster than the traditional method of photographing and processing images of coral for research, allowing them to capture larger areas of all the reefs they visit.

Researchers were out on Hawaii's Kaneohe Bay near the famed hat-shaped island of Mokolii last week. Along with the survey team, three scientists went to two different locations about a mile off shore on the north edge of a reef that runs along a sandbar. While the Seaview Survey crew dived with a specially designed camera and sea scooter system, which houses three wide angle lenses pointed in different directions, the scientists snorkeled and inspected the condition of the organisms near the surface.

"What sort of surprised me is how many corals have already started to bleach," said Malia Chow, National Oceanic and Atmospheric Administration's superintendent of the Hawaiian Islands Humpback Whale National Marine Sanctuary, who was with the survey crew last week.

Online:

<http://catlinseaviewsurvey.com>

STATE
DEPARTMENT
OFFICIALS
ROUTINELY
SENT SECRETS
OVER EMAIL

WASHINGTON (AP) - The transmission of now-classified information across Hillary Rodham Clinton's private email is consistent with a State Department culture in which diplomats routinely sent secret material on unsecured email during the past two administrations, according to documents reviewed by The Associated Press.

Clinton's use of a home server makes her case unique and has become an issue in her front-running campaign for the Democratic presidential nomination. But it's not clear whether the security breach would have been any less had she used department email. The department only systematically checks email for sensitive or classified material in response to a public records request.

In emails about the 2012 attack on a U.S. diplomatic facility in Benghazi, Libya, department officials discuss sensitive matters in real time, including the movement of Libyan militias and the locations of key Americans. The messages were released last year under the Freedom of Information Act and are posted on the State Department's website.

An email from diplomat Alyce Abdalla, sent the night of the attack, appears to report that the CIA annex in Benghazi was under fire. The email has been largely whited out, with the government citing the legal exemption for classified intelligence information. The existence of that facility is now known; it was a secret at the time.

In an email sent at 8:51 p.m. on Sept. 11, 2012, Eric J. Pelofsky, a senior adviser to then-U.N. Ambassador Susan Rice, gives an update on

efforts to locate U.S. Ambassador Chris Stevens, who died in the attack.

The email was marked unclassified when sent. Later, part of it was deemed classified and censored before its release.

In five emails that date to Condoleezza Rice's tenure as secretary of state during the George W. Bush administration, large chunks are censored on the grounds that they contain classified national security or foreign government information.

These emails also are posted on the State Department website's reading room.

In a December 2006 email, diplomat John J. Hillmeyer appears to have pasted the text of a confidential cable from Beijing about China's dealings with Iran and other sensitive matters. Large portions of the email were marked classified and censored before release.

Clinton insists she didn't send or receive classified information. But government officials have found material they deem classified in several dozen of 30,000 emails that the former secretary of state has turned over, an unfolding saga that has dogged her 2016 campaign.

Many of the emails to Clinton containing classified information were forwarded to her by a close aide, Huma Abedin. Most, however, originated with diplomats who have access to confidential material. Some emails sent by Clinton have since been censored.

Such slippage of classified information into regular email is "very common, actually," said Leslie McAdoo, a lawyer who frequently represents government officials and contractors

in disputes over security clearances and classified information.

What makes Clinton's case different is that she exclusively sent and received emails through a home server in lieu of the State Department's unclassified email system. Neither would have been secure from hackers or foreign intelligence agencies, so it would be equally problematic whether classified information was carried over the government system or a private server, experts say.

In fact, the State Department's unclassified email system has been penetrated by hackers believed linked to Russian intelligence.

Many of the emails to Clinton came from state.gov email accounts, noted Steven Aftergood, an expert on classification at the Federation of American Scientists. "So if there is routine security screening and monitoring of incoming and outgoing State Department emails, anything that is classified should have been flagged. That does not seem to have happened. I think it's the State Department culture."

That may be true, but it would not save a rank-and-file official with a security clearance who was caught sending classified information over email, said Bradley Moss, a lawyer who frequently represents intelligence officers. That person could lose his job, his clearance, or both.

"In real life, the 'everybody does it defense' doesn't fly," Moss said.

In a statement, State Department spokesman Alec Gerlach said it's not uncommon - across each agency - that when considering information for release, "certain information

must later be upgraded even if it had not previously been classified.”

“Classifying information ahead of a release doesn’t necessarily mean information was mishandled, but it certainly does reflect the seriousness with which we take our obligations and the fact that over time, some of the circumstances in which information is being digested can and do change,” Gerlach said.

Clinton, speaking to reporters after an event in Iowa, said: “My use of personal email was allowed by the State Department. It clearly wasn’t the best choice. I should have used two emails, one personal, one for work. And I take responsibility for that decision.”

She added, “I’m confident that this process will prove that I never sent nor received any email that was marked classified.”

The AP has asked the State Department to turn over records reflecting any concerns by agency computer staff or security officials over Clinton’s use of a private email server, but has received no responsive documents.

There is no indication that any information in Clinton emails was marked classified at the time it was sent. But critics have said Clinton and her aides should have known not to discuss anything remotely secret over unsecured email. The emails show they were cognizant of security, routinely communicating over secure phone and fax lines.

Clinton also had access to a classified messaging system, but it’s not widely used at the State Department. Most department officials in Washington and at embassies have on their

desktops a classified network that goes up to “secret” level. A small number of State officials, including the secretary, can use a third system that goes up to “top secret” level in special secure rooms.

But even the middle-tier “secret” network is cumbersome for many in the agency, said officials who would not be quoted when discussing internal security policies. Only a few top officials in Washington are able to read classified emails outside the department’s headquarters. Most ambassadors can’t open their accounts from home. Officials in the field may have no access at all.

Lots of State Department information is meant for use, sharing and interaction with foreign officials, the vast majority of whom aren’t authorized to receive classified U.S. material.

TUNEIN RADIO APP STARTS \$8 TIER WITH MLB, SOCCER, AUDIOBOOKS

TuneIn, the app that gives users free access to thousands of live radio stations around the world, is launching an \$8-a-month premium subscription service that throws in ad-free listening, audiobooks and live play-by-play coverage of Major League Baseball and soccer from the Premier League and the Bundesliga.

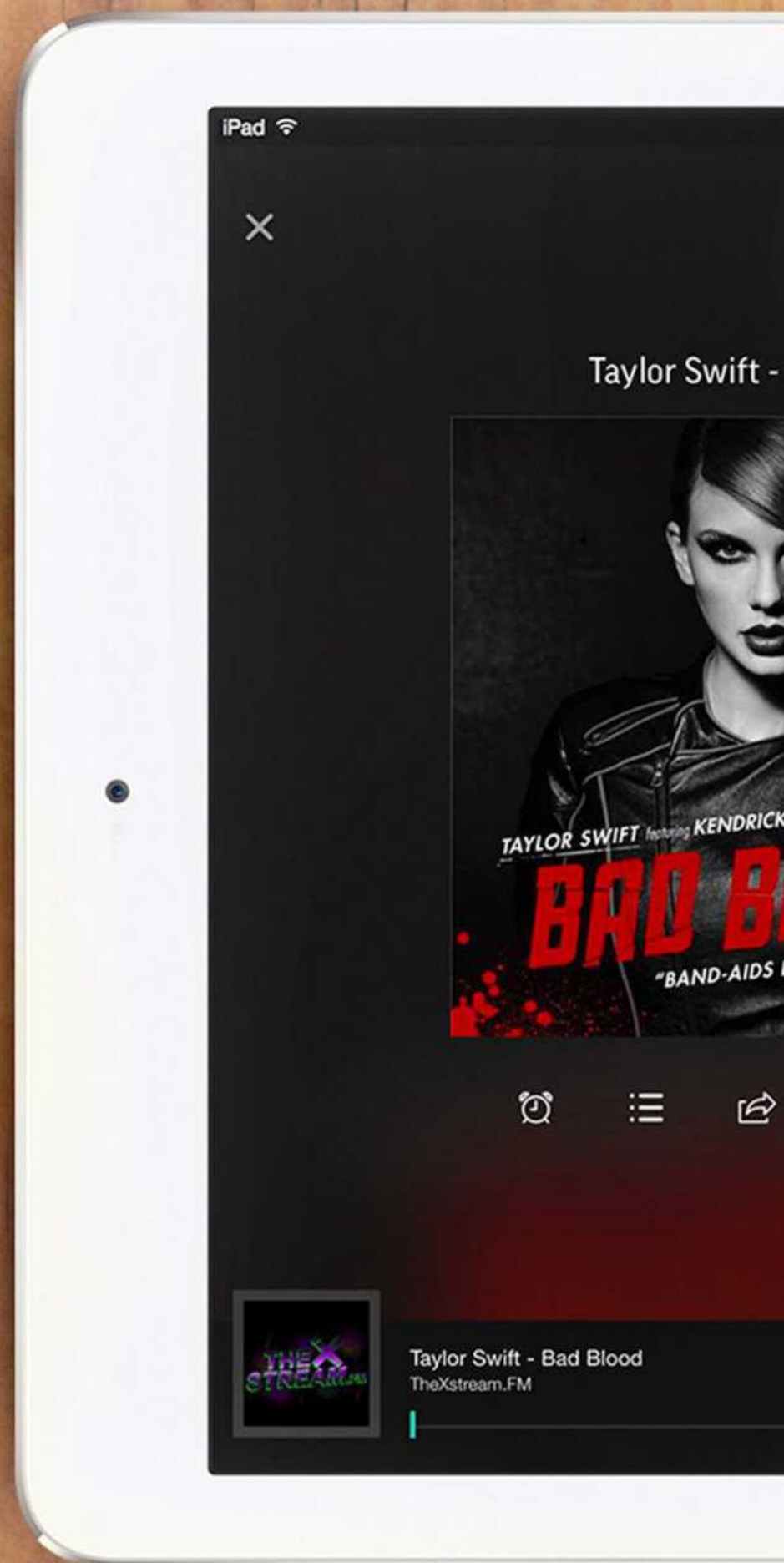
The seemingly disparate offer caters to listeners who have varied tastes, says TuneIn CEO John Donham. That could be news in the morning, music at night, live sports whenever a good game is on, and a good book for long commutes.

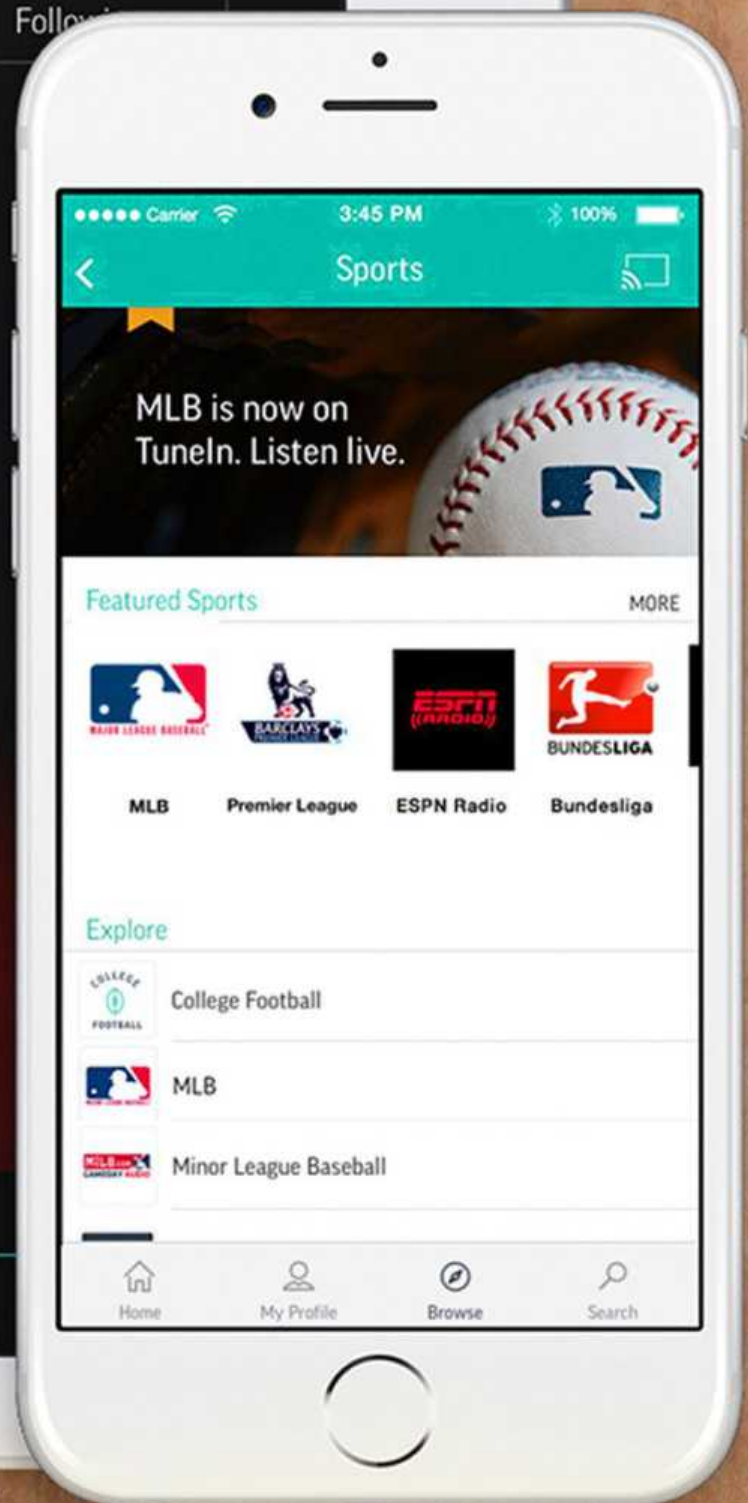
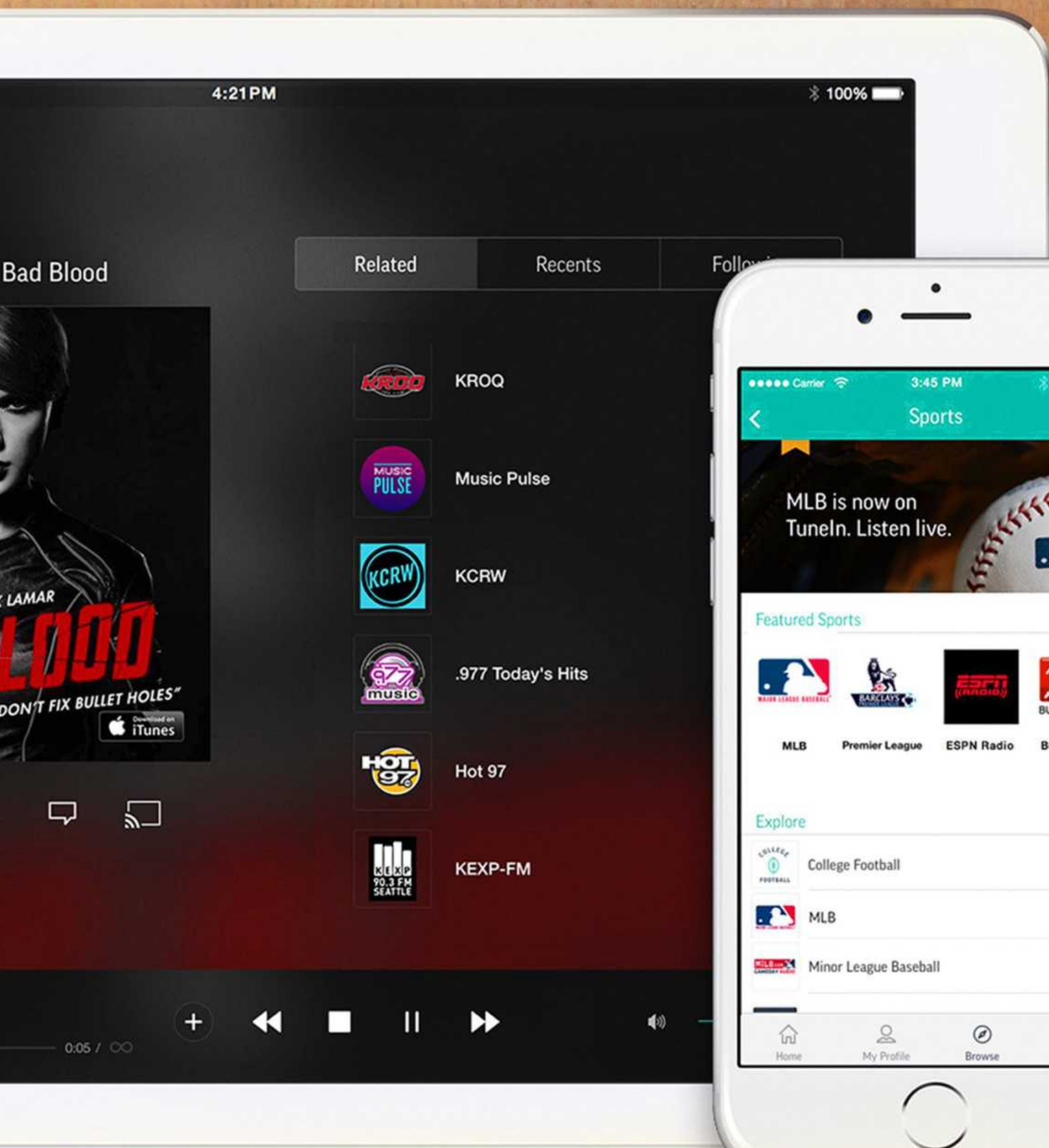
It turns out people want more than just one thing, he says.

The package is meant to emulate the kind of mix one gets from satellite radio giant Sirius XM premium sports, talk shows and commercial-free music. We're out to build a worldwide version of that, Donham says.











The offer launches in the U.S. on Tuesday, as well as in Canada, where it'll cost 9 Canadian dollars a month, and in the U.K., where it'll be 6 pounds a month.

The offer adds 40,000 audiobooks from HarperCollins, Penguin Random House and Scholastic to the few dozen public-domain books already in the app. New titles include Cheryl Strayed's *Wild*, Sheryl Sandberg's *Lean In* and George R.R. Martin's *A Game of Thrones*.

Ad-free listening is initially tailored to 600 Internet radio stations. Terrestrial radio stations in the U.S. and abroad are planned to be added in the next few months, Donham says.

When a DJ cuts to a commercial break, TuneIn knows how long an ad break will be, and for paying subscribers, it will insert a song of roughly the right length that would fit the station's genre. Plugging the ad break of terrestrial stations with a song is a technical problem that will take a little more time to work out, he says.

Launching a paid tier in addition to its free ad-supported service is born from the desire to add more content to the site that cannot be paid for simply with ads, Donham says, adding that reducing the number of ads played could actually help push prices up.

If you reduce the number of ads by 10 percent, the value of each ad would go up, he says.

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